9 84 Ah

UNITED STATES DEPARTMENT OF AGRICULTURE

Agriculture Handbook No. 15

Washington, D. C.

June 1951

WORKERS IN SUBJECTS PERTAINING TO AGRICULTURE IN LAND-GRANT COLLEGES AND EXPERIMENT STATIONS

1950-51

IBRARY

JUN 2 9 1951

U.S. JEPARIMENT OF ARROUGETURE



AGRICULTURAL RESEARCH ADMINISTRATION
OFFICE OF EXPERIMENT STATIONS

TITLES AND SERIES OF PUBLICATIONS SINCE THE FIRST ISSUE IN 1889

Organization of the Agricultural Experiment Stations in the United States. 1889. (Published as U. S. Dept. Agr., Off. Expt. Stas. Bul. 1.)
Organization Lists of the Agricultural Experiment Statious, and Agricultural Schools and Colleges in the United States. 1890. (U. S. Dept. Agr., Off. Expt. Stas. Bul. 5.)
Organization Lists of the Agricultural Experiment Stations in the United States. 1891. (U. S. Dept. Agr., Off. Expt. Stas. Circ. 20.)
Organization Lists of the Agricultural Experiment Stations and Agricultural Schools and Colleges. 1892, 1893, 1894. (U. S. Dept. Agr., Off. Expt. Stas. Bulls. 12, 13, 19.)
Organization Lists of the Agricultural Experiment Stations and Institutions with Courses in Agriculture in the United States. 1895, 1896, 1897, 1898. (U. S. Dept. Agr., Off. Expt. Stas. Buls. 23, 27, 39, 47.)
Organization Lists of the Agricultural Colleges and Experiment Stations in the United States, with a List of Agricultural Experiment Stations in Foreign Countries. 1899, 1900, 1901, 1902, (U. S. Dept. Agr., Off. Expt. Stas. Buls. 59, 74, 88, 111.)
Organization Lists of the Agricultural Colleges and Experiment Stations in the United States, 1903 to 1912, inclusive. (U. S. Dept. Agr., Off. Expt. Stas. Buls. 122, 137, 151, 161, 176, 197, 206, 224, 233, 247, 253.)
Superseded by Lists of Workers in Subjects Pertaining to Agriculture and Home Economics in the U. S. Department of Agriculture and the State Agricultural Colleges and Experiment Stations. (Unnumbered series running through 1921-22.)

1914. The 1913 edition corrected to June 1914.
1915. Corrected to August 1, 1915.
1916. None published—corrections brought to January 1917.
List of Workers in Subjects Pertaining to Agriculture and Home Economics, Part 1, United States Department of Agriculture. Part 2. State Agricultural Colleges and Experiment Stations.
1917-18.
1918-19. ["Marketing" added to title for this issue only.]
1920-20. Not published. 1919-20. 1920-21. 1921-22. 1922-23. 1923-24. 1922-23. Issued as Misc. Circ. 4 (pt. 1 not published).
1923-24. Issued as Misc. Circ. 17 (pt. 1 not published).
Title changed to "List of Workers in Subjects Pertaining to Agriculture in State Agricultural Colleges and Experiment Stations," 1924-25. Misc. Circ. 34.
Workers in Subjects Pertaining to Agriculture in State Agricultural Colleges and Experiment Stations. 1925-26. Misc. Circ. 1926-27. Misc. Circ. 87. Misc. 1927-28. Pub. 12. 1928-29. Misc. 1928-29. 1929-30. 1930-31. 1931-32. 1932-33. 1933-34. Mlsc. Misc. Pub. 67. 100. Pub. Misc. Pub. 134. Misc. Pub. 154. 134. Misc. Pub. 180. Misc. Pub. 214. Misc. Pub. 234. 1934-35. 1935-36. Misc. Pub. 234. 1935-36. Misc. Pub. 234. Workers in Subjects Pertaining to Agriculture in Land-Grant Colleges and Experiment Stations. 1936-37. 1937-38. Misc. Pub. Misc. Pub. Misc. Pub. 254. 299. 335. 1938-39. 1939-40. Misc. Pub. 378. 420. 480. 1940-41. Pub. Pub. 1941-42. 1942-43. Misc. 510 Misc. Misc. Pub. 535. Pub. 556. 1943-44. 1944–45. 1945–46. Misc. Pub. Misc. Pub. 603. 625. 1946-47. Misc. Pub. 649. Misc. Pub. 677. Agriculture Handbook No. 3. Agriculture Handbook No. 15. 1948-49. 1949-50.

1950-51.

UNITED STATES DEPARTMENT OF AGRICULTURE

Agriculture Handbook No. 15

Washington, D. C.

June 1951

WORKERS IN SUBJECTS PERTAINING TO AGRICULTURE IN LAND-GRANT COLLEGES AND EXPERIMENT STATIONS

1950-51

By MILDRED T. JACKSON
Office of Experiment Stations



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1951

AGRICULTURAL RESEARCH ADMINISTRATION

P. V. CARDON, B. S., M. S., LL. D., Administrator

OFFICE OF EXPERIMENT STATIONS

- R. W. TRULLINGER, B. S. C. E., A. E., D. Eng., Chief
- E. C. Elting, A. M., Associate Chief
- H. C. KNOBLAUCH, Ph. D., Assistant Chief
- F. D. Fromme, Ph. D., Research Coordinator, Regional Research Fund

GEORGIAN ADAMS, D. Sc., Prin. Expt. Sta. Administrator-Nutrition. Nolan F. Farris, Ph. D., Prin. Expt. Sta. Administrator-Agronomy. WILLARD H. GARMAN, Ph. D., Prin. Expt. Sta. Administrator-Soil Technology. CHARLES G. GREY, B. S., D. V. M., Prin. Expt. Sta. Administrator-Veterinary Medicine. DAVID V. LUMSDEN, Ph. D., Prin. Expt. Sta. Administrator-Horticulture. EDWARD R. McGovran, Ph. D., Prin. Expt. Sta. Administrator-Entomology. WERNER P. MEYER, B. S., Prin. Expt. Sta. Administrator-Coordinator of Research Information. BARTON C. REYNOLDS, B. S. E. E., Prin. Expt. Sta. Administrator-Agricultural Engineering. HENRY M. STEECE, M. A., Prin. Expt. Sta. Administrator-Agronomy. WHITNEY B. STOUT, Ph. D., Prin. Expt. Sta. Administrator-Marketing Technology. Joseph W. Wellington, M. S., Prin. Expt. Sta. Administrator—Horticulture. SAMUEL H. WORK, Ph. D., Prin. Expt. Sta. Administrator-Animal Husbandry. DWIGHT L. ESPE, Ph. D., Sr. Expt. Sta. Administrator-Dairy Husbandry. CAMILLE L. LEFEBURE, Ph. D., Sr. Expt. Sta. Administrator-Plant Pathology. RALPH B. NESTLER, B. S., Sr. Expt. Sta. Administrator-Poultry Husbandry. GLENN R. SMITH, Ph. D., Sr. Expt. Sta. Administrator-Marketing Technology. CHRISTINE JUSTIN, B. S., Home Economist. HENRY C. WATERMAN, B. S., Chemist. WALWORTH BROWN, B. A., Administrative Officer.

FEDERAL EXPERIMENT STATION IN PUERTO RICO (P. O., Mayagüez)

KENNETH A. BARTLETT, Ph. D., Director ARNAUD J. LOUSTALOT, Ph. D., Assistant Director

THOMAS J. MUZIK, Ph. D., Plant Physiologist.
CALEB PAGÁN CARLO, B. S., Chemist.
MURRELL P. MORRIS, Ph. D., Chemist.
THOMAS THEIS, Ph. D., Plant Pathologist.
HARRY E. WARMKE, Ph. D., Plant Geneticist.
HAROLD F. WINTERS, M. S., Horticulturist.
CARMELO ALEMAR, Administrative Assistant.
HÉCTOR J. CRUZADO, Scientific Aid.
RUBÉN H. FREYRE, Scientific Aid.
ASTOR GONZÁLEZ, COllaborator (Library: Coop. Govt. of P. R.).

OFFICERS AND COMMITTEES OF THE ASSOCIATION OF LAND-GRANT COLLEGES AND UNIVERSITIES FOR 1951

PRESIDENT

R. F. Poole, of South Carolina

EXECUTIVE SECRETARY-TREASURER Russell I. Thackrey, of Washington, D. C.

SENATE STANDING COMMITTEES

Executive Committee 1

J. A. Hannah, of Michigan, Chairman (1951).

The President of the Association, R. F. Poole, of South Carolina, Vicz-Chairman (1952).2

R. G. Gustavson, of Nebraska (1951).

Jessie W. Harris, of Tennessee (1951).

L. W. Jones, of Arkansas (1951).

J. R. Killian, Jr., of Massachusetts (1951).

H. L. Donovan, of Kentucky (1952).

O. H. Rechard, of Wyoming (1952).

H. P. Rusk, of Illinois (1952).

M. S. Eisenhower, of Pennsylvania (1953).

W. A. Hagan, of New York (1953).

R. R. Renne, of Montana (1953).

Council on General Extension

1 year—E. L. Keller, of Pennsylvania, Chairman; C. W. Beese, of Indiana; M. A. Chaffee, of New Jersey; J. F. Cramer, of Oregon; L. W. Jones, of Arkansas; J. M. Nolte, of Minnesota; K. O. Broady, of Nebraska, Secretary.

Council on Graduate Work

(The Executive Committee of the Council is a committee of the Senate. See page VII for listing.)

Council on Instruction

- 3 years-W. C. Russell, of New Jersey; Henry Van Roekel, of Massachusetts.
- 2 years-A. W. Gibson, of New York, Chairman; *H. W. Barlow, of Texas.
- 1 year—E. Y. Blewett, of New Hampshire, Secretary; O. H. Rechard, of Wyoming; Louise A. Stedman, of Maine.

Irrigated Agriculture and Water Resources

G. D. Humphrey, of Wyoming, Chairman; F. A. Anderson, of Colorado; J. E. Buchanan, of Idaho; W. S. Carlson, of Vermont; T. P. Cooper, of Kentucky; R. M. Green, of Nebraska; I. B. Johnson, of South Dakota; L. W. Jones, of Arkansas; J. C. Knott, of Washington; R. I. Throckmorton, of Kansas; R. B. Tootell, of Montana; J. W. Branson, of New Mexico, Secretary.

Land-Grant Institutions for Negroes

- 3 years-W. S. Carlson, of Vermont; R. G. Gustavson, of Nebraska.
- 2 years-R. B. Draughon, of Alabama; W. S. Newman, of Virginia.
- 1 year—L. W. Jones, of Arkansas, Chairman.

National Defense ‡

- 3 years-J. E. Buchanan, of Idaho; R. F. Chandler, Jr., of New Hampshire.
- 2 years-F. L. Hovde, of Indiana; Gordon Gray, of North Carolina.
- 1 year-A. A. Hauck, of Maine, Chairman; Irvin Stewart, of West Virginia.

Necrology

- 3 years-J. W. Branson, of New Mexico.
- 2 years-F. H. Leinbach, of South Dakota.
- 1 year-W. S. Newman, of Virginia, Chairman.

*Representative in Association Senate.

¹The entire Executive Committee has been designated as a committee to confer with the Secretary of Agriculture at least annually in furtherance of the recommendations of the Report of the Joint Committee on Extension.

² President R. F. Poole, of South Carolina, will represent the Executive Committee on the Board of Trustees of the National 4-H Club Foundation.

[‡]Committees thus designated are instructed to work with similar committees of the National Association of State Universities.

Pre-Service and Graduate Training for Extension Workers

A. L. Deering, of Maine, Chairman; Gladys A. Branegan, of Ohio; C. W. Jones, of New York; V. E. Kivlin, of Wisconsin; C. C. Hearne, of the USDA, Secretary.

Radio and Television 1

- 3 years-J. H. Denison, of Michigan.
- 2 years-C. E. Friley, of Iowa.
- 1 year-H. L. Bevis, of Ohio, Chairman.

SENATE JOINT COMMITTEES

Agricultural Services to Foreign Areas

J. A. Hannah, of Michigan, Chairman; C. E. Friley, of Iowa; C. B. Hutchison, of California; W. I. Myers, of New York; H. P. Rusk, of Illinois; H. C. Sanders, of Louisiana.

For the USDA—P. V. Cardon, Chairman; Stanley Andrews; F. F. Elliott; T. Roy Reid; M. L. Wilson; S. B. Fracker, Secretary. (Alternates—Eric Englund, Ross Moore.)

Business Officers

(With the National Association of State Universities)

L. R. Lunden, of Minnesota, *Chairman*; H. A. Bork, of Oregon; R. P. Briggs, of Michigan; J. H. Corley, of California; Leslie Cowan, of Missouri; W. T. Ingram, of Alabama; A. S. Johnson, of New Jersey; R. C. Magrath, of New Hampshire; A. W. Peterson, of Wisconsin; C. E. Teague, of North Carolina.

Grasslands Farmina

Extension—L. E. Hoffman, of Indiana, Chairman: E. V. Ellington, of Washington: J. M. Frv. of Pennsylvania; L. I. Jones, of Mississippi.

Research-M. H. Campbell, of Rhode Island, Chairman; H. J. Henney, of Colorado; R. D. Lewis, of Texas; R. J. Muckenhirn, of Wisconsin.

For the USDA-P. V. Cardon; K. T. Hutchinson; W. A. Minor; M. L. Wilson.

Relationships With the National Association of State Universities

E. B. Fred, of Wisconsin; F. L. Hovde, of Indiana; C. R. Woodward, of Rhode Island.

Training for Government Service

C. E. Friley, of Iowa, Chairman; C. W. Creel, of Nevada; H. P. Hammond, of Pennsylvania; L. M. Short, of Minnesota; F. C. Smith, of Tennessee; Frances L. Zuill, of Wisconsin.

For the USDA-T. Roy Reid, Chairman; H. H. Bennett; P. V. Cardon; F. F. Elliott; C. O. Henderson; L. F. Watts; M. C. Wilson; J. P. Findlay, Secretary.

Veterans Affairs

- 3 years—H. L. Donovon, of Kentucky, *Chairman*; M. T. Harrington, of Texas. 2 years—J. L. Morrill, of Minnesota.
- 1 year-R. A. Van Meter, of Massachusetts.

For the NASU-H. L. Donovan, of Kentucky, Chairman; L. W. Jones, of Arkansas; R. L. Stearns, of Colorado.

SENATE SPECIAL COMMITTEES FOR 1951

Federal Legislation

M. S. Eisenhower, of Pennsylvania, Chairman; Gibb Gilchrist, of Texas; R. G. Gustavson, of Nebraska; Jessie W. Harris, of Tennessee; A. A. Hauck, of Maine; F. L. Hovde, of Indiana; G. D. Humphrey, of Wyoming; W. H. Martin, of New Jersey; J. L. Morrill, of Minnesota; Irvin Stewart, of West Virginia; C. R. Woodward, of Rhode Island. Consultant-E. E. Day, of New York.

Training of Vocational Agriculture Teachers

E. L. Anthony, of Michigan, Chairman; V. C. Freeman, of Indiana; H. C. Grinnell, of New Hampshire; C. N. Shepardson, of Texas; S. B. Shirky, of Missouri.

SENATE DELEGATES

Delegates to the American Council on Education

- 3 years-W. S. Carlson, of Vermont.
- 2 years-L. E. Jackson, of Pennsylvania.
- 1 year-A. L. Strand, of Oregon.

Delegates to the National Commission on Accrediting

- 3 years-H. L. Donovan, of Kentucky; Irvin Stewart, of West Virginia.
- 2 years-J. R. Killian, Jr., of Massachusetts; J. H. Miller, of Florida.
- 1 year-F. L. Hovde, of Indiana; W. S. Carlson, of Vermont.

OFFICERS AND COMMITTEES

Delegate to the National Committee on Traffic Safety

Amos Neyhart, of Pennsylvania.

Representative on the Advisory Panel on ROTC

(Civilian Components Policy Board)

F. A. Middlebush, of Missouri.

Representatives on the Air Force Advisory Committee on ROTC

H. L. Donovan, of Kentucky; Irvin Stewart, of West Virginia.

OFFICERS AND COMMITTEES OF THE DIVISION OF AGRICULTURE

Executive Committee

3 years-*V. C. Freeman, of Indiana, Secretary.

2 years-*H. P. Rusk, of Illinois, Chairman.

1 year—J. W. Burch, of Missouri ; Aubrey D. Gates, of Arkansas ; C. S. Hutchison, of Ohio ; W. H. Martin, of New Jersey; *J. H. McLeod, of Tennessee; F. E. Price, of Oregon, Vice Chairman; E. V. Smith, of Alabama,

Section of Experiment Station Work

E. V. Smith, of Alabama, Chairman.

Fred Griffee, of Maine, Secretary.

Experiment Station Committee on Organization and Policy (ESCOP)

- 4 years—Dorothy Dickins, of Mississippi; L. E. Hawkins, of Oklahoma; H. R. Varney, of West Virginia; N. J. Volk, of Indiana.
- 3 years-W. V. Lambert, of Nebraska; Catherine J. Personius, of New York; R. H. Walker, of Utah : H. N. Young, of Virginia.
- 2 years—M. H. Campbell, of Rhode Island; L. S. Ellis, of Arkansas; Clyde McKee, of Montana; Pearl P. Swanson, of Iowa.
- 1 year-C. H. Bailey, of Minnesota; R. S. Besse, of Oregon; W. H. Martin, of New Jersey, Chairman; Mrs. Agnes Fay Morgan, of California. The Secretary of the Section of Experiment Stations Work, Fred Griffee, of Maine, Secretary.

Ex-Officio: R. W. Trullinger, Chief, Office of Experiment Stations, USDA.

Advisory Subcommittee of ESCOP on Marketing Research

M. T. Buchanan, of Washington, Chairman; C. M. Hardin, of Michigan; F. F. Lininger, of Pennsylvania; F. J. Welch, of Mississippi. (Alternates-R. K. Froker, of Wisconsin; H. J. Henney, of Colorado).

Officers of Regional Experiment Station Committees

North Central: I. B. Johnson, of South Dakota, Chairman,

M. L. Baker, of Nebraska, Vice-Chairman.

G. F. Stewart, of California, Secretary.

Northeastern: M. H. Campbell, of Rhode Island, Chairman.

M. A. Farrell, of Pennsylvania, Secretary. Southern:

L. E. Hawkins, of Oklahoma, Chairman.

R. J. Jones, of Oklahoma, Secretary.

R. S. Besse, of Oregon, Chairman.

Clyde McKee, of Montana, Secretary.

Committee of Nine, Public Law 733

(Not an official committee of the Association)

- 2 years-Floyd Andre, of Iowa; R. P. Bartholomew, of Arkansas; A. S. Curry, of New Mexico; M. A. Farrell, of Pennsylvania; Pearl P. Swanson, of Iowa. (Alternates-P. S. Burgess, of Arizona; M. H. Campbell, of Rhode Island; R. W. Cummings, of North Carolina; W. E. Krauss, of Ohio; Harold Macy, of Minnesota.)
- 1 year-P. F. Sharp, of California, Chairman; R. I. Throckmorton, of Kansas, Vice-Chairman; C. C. Murray, of Georgia; W. B. Young, of Connecticut.
- F. D. Fromme, Office of Experiment Stations, USDA, Secretary.

Section of Extension Work

J. W. Burch, of Missouri, Chairman. Shawnee Brown, of Oklahoma, Secretary.

See footnote * on p. III.

Western:

Extension Committee on Organization and Policy (ECOP)

- 4 years-Verna J. Hitchcock, of Wyoming; L. I. Jones, of Mississippi; C. M. Ferguson, of Ohio.
- 3 years—Kathryn V. Burns, of Illinois; W. W. Clark, of Wisconsin; H. O. Stuart, of Rhode Island.
- 2 years—Norma M. Brumbaugh, of Oklahoma; J. M. Fry, of Pennsylvania; R. B. Tootell, of Montana, Secretary.
- 1 year-F. L. Ballard, of Oregon; Aubrey D. Gates, of Arkansas, Chairman; Marjorie E. Luce, of Vermont.
- Ex officio-M. L. Wilson, Director of Cooperative Extension, USDA.

ECOP Subcommittee on Public Relations

F. L. Ballard, of Oregon, Chairman; G. L. Boykin, of New Mexico; C. M. Ferguson, of Ohio; H. C. Sanders, of Louisiana; Maude E. Wallace, of Virginia.

Officers of Regional Extension Committees

Central:

- C. V. Ballard, of Michigan, Chairman.
- H. A. Berg, of Michigan, Secretary.
- Northeastern: R. G. Hepburn, of Connecticut, Chairman.
- Southern:
- R. P. Davison, of Vermont, Secretary.J. H. McLeod, of Tennessee, Chairman.
- C. S. Sheffield, of the Extension Service, USDA, Secretary.
 Western: C. U. Pickrell, of Arizona, Chairman.
 - F. C. Jans, of the Extension Service, USDA, Secretary.

Section of Resident Instruction

- C. S. Hutchison, of Ohio, Chairman.
- R. B. Dickerson, of Pennsylvania, Secretary.

Resident Instruction Committees on Organization and Policy

- 3 years—C. H. Bostian, of North Carolina; G. M. Cairns, of Maryland; C. S. Hutchison, of Ohio; S. P. Swenson, of Washington.
- 2 years—G. T. Hudson, of Arkansas; A. I. Mann, of Connecticut; C. R. Megee, of Michigan; K. A. Ryerson, of California.
- 1 year—R. B. Dickerson, of Pennsylvania, Secretary; L. J. Horlacher, of Kentucky; R. R. Hudelson, of Illinois; F. E. Price, of Oregon, Chairman.
- Ex officio—The Senate Representative from the Resident Instruction Section, V. C. Freeman, of Indiana.

Officers of Regional Resident Instruction Committees

North Central: C. R. Megee, of Michigan, Chairman.

- C. S. Hutchison, of Ohio, Secretary. Northeastern: A. W. Gibson, of New York, Chairman.
 - W. C. Libby, of Maine, Secretary.
- Southern: L. J. Horlacher, of Kentucky, Chairman.
- G. T. Hudson, of Arkansas, Secretary.
- Western: F. E. Price, of Oregon, Chairman.
 - S. P. Swenson, of Washington, Secretary.

Resident Instruction Subsection on Short Courses

- 3 years—C. H. Bostian, of North Carolina; R. H. Verbeck, of Massachusetts.
- 2 years-V. C. Freeman, of Indiana; V. E. Kivlin, of Wisconsin.
- 1 year-J. O. Christianson, of Minnesota, Chairman; R. W. Tenny, of Michigan, Secretary.

OFFICERS AND COMMITTEES OF THE DIVISION OF ARTS AND SCIENCES

Executive Committee

- 3 years-*J. M. Murray, of Maine; M. M. White, of Kentucky, Secretary.
- 2 years-L. R. Hesler, of Tennessee; *O. H. Rechard, of Wyoming.
- 1 year-*W. L. Ayres, of Indiana, Chairman.

Program Committee

J. M. Murray, of Maine, Chairman.

OFFICERS AND COMMITTEES OF THE DIVISION OF ENGINEERING

Executive Committee

- 3 years-*M. P. O'Brien, of California, Secretary.
- 2 years-*D. L. Arm, of Delaware, Vice-Chairman.
- 1 year—*J. R. Killian, Jr., of Massachusetts, Chairman; C. W. Beese, of Indiana; G. W. Gleeson, of Oregon; J. F. D. Smith, of Iowa.

See footnote * on p. III.

Extension Section Committee

- 3 years-K. L. Holderman, of Pennsylvania; J. H. Williamson, of Tennessee, Secretary.
- 2 years-C. W. Beese, of Indiana, Chairman; E. W. Ruggles, of North Carolina, Vice-Chairman.
- 1 year-R. S. Howell, of Georgia; E. L. Keller, of Pennsylvania.

Research Section Committee

- 3 years-E. C. Easton, of New Jersey; H. A. Schade, of California.
- 2 years-A. P. Colburn, of Delaware; R. A. Morgan, of Florida, Secretary.
- 1 year-W. L. Everitt, of Illinois; J. F. D. Smith, of Iowa, Chairman.

Resident Instruction Section Committee

- 3 years—L. M. K. Boelter, of California; A. F. Spilhaus, of Minnesota.
- 2 years-H. W. Barlow, of Texas, Secretary; H. O. Croft, of Missouri.
- 1 year—N. W. Dougherty, of Tennessee; G. W. Gleeson, of Oregon, *Chairman*; E. R. McKee, of Vermont, *Vice-Chairman*.

OFFICERS AND COMMITTEES OF THE COUNCIL ON GRADUATE WORK

Executive Committee

- 3 years-C. W. Jones, of New York,
- 2 years-C. J. Rees, of Delaware, Secretary; R. L. Sweigert, of Georgia.
- 1 year—W. R. Dennes, of California; *Herbert Drennon, of Mississippi; R. G. Gustavson, of Nebraska; Harold Howe, of Kansas, Chairman.

Editorial Committee

C. J. Rees, of Delaware, *Chairman*; T. C. Blegen, of Minnesota; W. R. Dennes, of California; C. A. Elvehjem, of Wisconsin.

Committee on Enrollment Trends

D. H. Morgan, of Colorado, Chairman; R. W. Goss, of Nebraska; L. N. Ridenour, of Illinois; T. M. Simpson, of Florida; C. A. Tyre, of New Mexico.

Committee on Graduate Instruction

W. C. Russell, of New Jersey, *Chairman*; Ronald Bamford, of Maryland; C. A. Elvehjem, of Wisconsin; D. L. Patrick, of Arizona; R. J. Russell, of Louisiana.

Committee on Professional Schools

N. P. Hudson, of Ohio, *Chairman*; T. C. Blegen, of Minnesota; V. O. Knudsen, of California; T. H. Osgood, of Michigan; R. L. Sweigert, of Georgia.

Program Committee

H. E. Bent, of Missouri, *Chairman*; S. E. Hazlet, of Washington; D. C. McIntosh, of Oklahoma; R. L. Sweigert, of Georgia, N. L. Whetten, of Connecticut.

Committee on Resolutions

R. M. Hixon, of Iowa, Chairman; Fred Allison, of Alabama; N. P. Hudson, of Ohio.

OFFICERS AND COMMITTEES OF THE DIVISION OF HOME ECONOMICS

Executive Committee

- 3 years—Beatrice E. Billings, of Massachusetts, Secretary; *Florence B. King, of Vermont; Blanche L. Lee, of Wisconsin; Janice M. Smith, of Illinois; Marion W. Spidle, of Alabama; Gladys E. Vail, of Kansas.
- 2 years—*Jessie W. Harris, of Tennessee; Bessie E. McClelland, of Montana; Katherine Roy, of Montana.
- 1 year—Clara Tucker, of Louisiana, Chairman; *Maude E. Wallace, of Virginia; Pauline P. Wilson, of Georgia.

Section of Extension

- 3 years—Beatrice E. Billings, of Massachusetts (Officer-Elect). Blanche L. Lee, of Wisconsin, Secretary.
- 2 years-Bessie E. McClelland, of Montana, Chairman.
- 1 year-Maude E. Wallace, of Virginia.

Section of Research

- 3 years-Florence B. King, of Vermont; Gladys E. Vail, of Kansas, Secretary.
- 2 years—Katharine Roy, of Montana, Chairman.
- 1 year—Pauline P. Wilson, of Georgia (Officer-Elect).

See footnote * on p. III.

OFFICE'RS AND COMMITTEES

Section of Resident Instruction

- 3 years-Janice M. Smith, of Illinois, Secretary; Marion W. Spidle, of Alabama, Chairman.
- 2 years-Jessie W. Harris, of Tennessee.
- 1 year-Clara Tucker, of Louisiana (Officer-Elect).

OFFICERS AND COMMITTEES OF THE DIVISION OF VETERINARY MEDICINE

Executive Committee

- 3 years-*F. E. Hull, of Kentucky, Chairman; W. T. Oglesby, of Louisiana, Secretary.
- 2 years-*W. A. Hagan, of New York.
- 1 year-*H. D. Bergman, of Iowa; C. R. Donham, of Indiana.

Program Committee

G. C. Holm, of North Dakota, *Chairman*; C. A. Brandly, of Wisconsin; G. H. Hart, of California; Dennis Sikes, of Tennessee; E. F. Waller, of Delaware.

See footnote * on p. III.

KEY TO ABBREVIATIONS

Acct., Accountant, Accounts. Insts., Institutes.
Invest., Investigations, Investigational, Inves-Actg., Acting. Actm., Administration, Administrative. tigator. tigator.

Irrig., Irrigation, Irrigationist.

Lab., Laboratory.

Landscape.

Lect., Lecturer.

Libr., Library, Librarian.

Mach., Machine, Machinery.

Mech., Mechanics, Mechanical.

Med., Medicine, Medical.

Met., Meteorology, Meteorologist.

Mfg., Manufacturing.

Mfgs., Manufactures. Agr., Agriculture, Agriculturist, Agricultural. Agron., Agronomy, Agronomist. Agent. An., Animal. Anal., Analytical, Analysis. Anat., Anatomy.
Anat., Anatomy.
Arch., Architect, Architecture, Architectural.
Assoc., Associate, Association.
Asst., Assistant.
Bact., Bacteriology, Bacteriologist.
Biochem., Biochemist, Biochemistry, Biochemical Mfg., Manufacturing.
Mfgs., Manufacturing.
Mfgs., Manufactures.
Mgr., Manager.
Mgt., Microbiology, Microbiologist.
Microbiol., Microbiology, Microbiologist.
Microbiol., Morphology, Morphologist.
Mycol., Mycologist.
Nutr., Nutrition, Nutritionist.
Oler., Olericulture, Olericulturist.
Org., Organic.
Organ., Organization(s).
Ornth., Ornithology, Ornithologist.
Parasit., Parasitology, Parasitologist.
Path., Pathology, Pathologist, Pathological.
Pharm., Pharmacy, Pharmacist, Pharmaceutical. ical.

Biol., Biology, Biologist, Biological.

Bidg., Building(s).

Bot., Botany, Botanist, Botanical.

Brdg., Breeding.

Bul., Bulletin.

Chair., Chairman.

Chem., Chemistry, Chemist, Chemical.

Climat., Climatology, Climatologist.

Coll., College.

Collab., Collaborator, Collaborating.

Comm., Commission.

Comp., Comparative.

Conserv., Conservation, Conservationis ical. Comer., Commissioner.
Conserv., Conservation.
Consult., Consulting, Consultant.
Coop., Cooperation, Cooperative, Cooperator.
Corresp., Correspondence, Correspondent.
Dem., Demonstration, Demonstrator.
Demt., Dopostron. ceutical. ceutical.
Pharmacol., Pharmacology, Pharmacologist.
Photog., Photography, Photographer.
Phys., Physics, Physical.
Physiol., Physiology, Physiologist, Physiological.
Phytopath., Phytopathology, Phytopathologist.
Phytopathelogical.
Phytopathological. Dept., Department.
Dir., Director.
Dist., District.
Div., Division. Phytopathological.
P. O., Post Office.
P. O., Post Office.
Pomol., Pomology, Pomologist, Pomological.
Prest, Practice, Practical.
Prep., Preparatory.
Pres., President.
Prin., Principal.
Prod., Production.
Prof., Professor.
Pubs. Publications.
Res., Research.
Sci., Science, Scientist, Scientific.
Sect., Section.
Secon., Secondary.
Secy., Secretary.
Sociol., Sociology, Sociologist.
Spec., Special, Specialist.
Sta., Station. Div., Division.

Dom., Domestic.

Ecol., Ecology, Ecologist, Ecological.

Econ., Economy, Economic(s), Economist.

Ed., Education, Educational.

Engin., Engineer, Engineering.

Ent., Entomology, Entomologist, Entomological. Equip., Equipment. Erad., Eradication. Exec., Executive. Exec., Experiment, mentalist.

Ext., Extension.

Fert., Fertility, Fertilizer.

Floriculture, Floriculturist, Floriculturester. Secy., Sectedly, Sociology, Sociologist.
Spec., Special, Specialist.
Spec., Special, Specialist.
Sta., Station.
Stat., Statistics, Statistical, Statistician.
Subsection.
Subseta., Subsection.
Suptr., Superintendent.
Suptr., Superintendent.
Suptr., Superintendent.
Suptr., Superintendent.
Suptr., Superintendent.
Suptr., Superintendent.
Technol., Technology, Technologist.
Treas., Treasurer.
Trop., Tropical.
Univ., University.
Veg., Vegetable, Vegetation.
Vet., Veterinary, Veterinarian.
Vit., Viticulture, Viticulturist, Viticultur
Voc., Vocational.
Zool., Zoology, Zoologist, Zoological. For., Forestry, Forester. Gard., Gardening, Gardener. Gen., General. Gen., General.
Geography.
Geol., Geology, Geologist, Geological.
Grad., Graduate.
Histol., Histology, Histologist.
Hon., Honorary.
Hort., Horticulture, Horticulturist, Horticulturists. Hort., I tural. tural.

Husb., Husbandry, Husbandman.

Hyg., Hygiene.

Illus., Illustration, Illustrative.

Indus., Industry, Industrial, Industries.

Inorg., Inorganic.

Lean Inspection Inspector Viticulturist, Viticultural. Inorg., Inorganic.
Insp., Inspection, Inspector.
Instr., Instructor, Instruction.

PREFACE

The following explanations apply throughout the publication:

Subject-matter workers in extension are generally shown under the respective department or division of the college.

Certain institutions use the academic title for experiment station workers as well as for personnel engaged solely as teachers.

 \mathbf{x}

LAND-GRANT COLLEGES AND EXPERIMENT STATIONS

ALABAMA

Schools of Agriculture and Home Economics and the Agricultural Experiment Station of the Alabama Polytechnic Institute, Auburn

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence.

*R. B. Draughon, LL. D., President.

*†E. V. Smith, Ph. D., Dean School of Agr., Dir. of Sta.

‡P. O. Davis, B. S., Dir. or Agr. Ext. Service.

†C. F. Simmons, Ph. D., Assoc. Dean School of Agr., Assoc. Dir. of Sta.

†C. T. Wilson, Ph. D., Asst. Dean School of Agr. and Asst. Dir. of Sta.

‡J. L. Lawson, B. S., Asst. Dir. of Agr. Ext. Service.

*†M. A. Glenn, Treasurer.

Agronomy and Soils:

+ Head of Dept. O. N. Andrews, M. S., Crop Improvement

Spec. †F. E. Bertram, B. S., Field Supt. (P. O.

†F. E. Bertram, B. S., Field Supt. (P. U. Prattville).

†J. T. Cope, Ph. D., Assoc. Prof. and Assoc. Soil Chem.

†F. L. Davis, Ph. D., Prof. Soils; Soil Chem.

†L. E. Ensminger, Ph. D., Assoc. Prof. and Assoc. Soil Chem.

†E. M. Evans, M. S., Asst. Agron.

†P. B. Gibson, Ph. D., Assoc. Prof. and Assoc Agron.

Assoc. Agron.

Assoc. Agron.

D. R. Harbor, B. S., Ext. Agron.

J. T. Hood, M. S., Asst. Prof. Agron.

C. L. Kornegay, B. S., Farm Supt.

J. C. Lowery, B. S., Ext. Agron.

F. S. McCain, Ph. D., Assoc. Plant Breeder.

F. H. Orr, B. S., Analyst, Test Dems.

R. M. Patterson, M. S., Asst. Agron.

R. W. Pearson, Ph. D., Senior Soil Sci.

(Coop. U. S. D. A.).

E. C. Richardson, M. S., Agron. (Coop.

U. S. D. A.).

J. W. Richardson, B. S., Field Supt. (P. O. Brewton).

Brewton).

†T. H. Rogers, M. S., Plant Breeder. *†R. D. Rouse, Ph. D., Assoc. Prof. and Assoc. Soil Chem. *†E. F. Schultz, M. S., Asst. Prof. and Asst.

Agron. †V. S. Searcy, B. S., Asst. Agron. †J. F. Segrest, Jr., B. S., Field Supt. (P. O.,

Tuskegee).

Tuskegee).

†A. L. Smith, Ph. D., Plant Path. (Coop.
U. S. D. A.).

†D. G. Sturkle, Ph. D., Prof. Agron.; Agron.
†H. B. Tisdale, M. S., Plant Breeder.

†J. I. Wear, Ph. D., Assoc. Prof. and Assoc.
Soil Chem.
†J. T. Williamson, B. S., Agron.
†C. M. Wilson, Ph. D., Assoc. Agron.

Animal Husbandry:

*†W. D. Salmon, M. A., Head of Dept.
*†M. J. Burns, Ph. D., Assoc. Prof. and Assoc. An. Husb.
†D. H. Copeland, B. S., Assoc. An. Nutr.
*†R. W. Engel, Ph. D., Prof. An. Nutr.; An.

*†J. C. Grimes, M. S., Prof. An. Husb.; An.

Husb*†E. L. Hove, Ph. D., Prof. An. Nutr.; An.

Nutr. ‡G. B. Phillips, B. S., Spec. in An. Indus. †H. E. Sauberlich, Ph. D., Prof. An. Nutr.; An. Nutr.

Animal Husbandry-Continued

†A. E. Schaefer, Ph. D., Assoc. An. Nutr.
†D. C. Shelton, Ph. D., Assoc. An. Nutr.
*†C. D. Squiers, Ph. D., Assoc. Prof. and
Assoc. An. Breeder.
*D. M. Turney, M. S., Assoc. Prof. An.
Huck Husb.

Botany and Plant Pathology:

*†J. L. Seal, Ph. D., Head of Dept.

*D. E. Davis, Ph. D., Assoc. Prof. Bot.

*J. F. Ferry, Ph. D., Assoc. Prof. Bot.

*K. H. Garren, Ph. D., Assoc. Prof. Bot.

†J. A. Lyle, M. S., Asst. Plant Path.

*†R. L. Self, Ph. D., Assoc. Prof. and Assoc.

*†H. S. Ward, Ph. D., Assoc. Prof. and Assoc.

 \widetilde{Bot} .

Chemistry (Regulatory):

*C. R. Saunders, Ph. D., Head of Dept. (State Chem.).

*P. R. Bidez, Senior Agr. Chem.

*T. A. Irving, M. S., Senior Agr. Chem.

*R. W. Richburg, B. S., Agr. Chem.

*W. L. Riley, B. S., Agr. Chem.

*E. A. Verchot, B. S., Agr. Chem.

Dairy Husbandry:

*†K. M. Autrey, Ph. D., Head of Dept. †W. E. Alston, B. S., Dairy Husb. *R. Y. Cannon, Ph. D., Assoc. Prof. Dairy Husb.

Husb.

*W. H. Eaton, B. S., Assoc. Prof. Dairy
Husb.

‡J. R. Parrish, B. S., Ext. Dairyman.

†W. B. Prather, B. S., Asst. Dairy Husb.

*G. H. Rollins, B. S., Asst. Prof. Dairy Husb.

‡P. B. Turnham, M. S., Asst. Ext. Dairyman.

Economics (Agr.):

*†B. F. Alvord, M. S., Head of Dept. *†J. H. Blackstone, M. S., Assoc. Prof. and Assoc. Agr. Econ. *†M. J. Danner, M. S., Assoc. Prof. and Assoc.

**Assoc. Froj. and Assoc. Agr. Econ.

†W. F. Gregory, M. S., Assoc. Agr. Econ.

(Coop. U. S. D. A.).

‡Foy Helms, B. S., Agr. Econ.

*†B. T. Lanham, Jr., M. S., Prof. Agr. Econ.;

Agr. Econ.

†R. W. Robinson, M. S., Asst. Prof. and Asst. Agr. Econ.

†J. L. Snare, M. S., Assoc. Prof. and Assoc.

*†S. W. Williams, Ph. D., Prof. Agr. Econ.; Agr. Econ.

Editorial:

*†‡L. O. Brackeen, B. S., Dir. of Publicity.
†Lyle Brown, B. S., Spec. in Visual Aids.
‡R. R. Chesnutt, B. S., Agr. Editor.
†J. O. Cooper, B. S., Asst. Agr. Editor.
†Durell Davis, B. S., Asst. Agr. Editor.
‡W. T. Kennedy, B. S., Asst. Agr. Editor.
‡K. B. Roy, B. J., Agr. Editor.
‡G. G. Stewart, B. S., Spec. in Visual Aids.
‡J. F. Yarbrough, IV, B. S., Asst. Agr. Editor.

Editor.

Education (Agr.):

*R. W. Montgomery, M. S., Head Prof. Agr.

*Ed. *D. N. Bottoms, M. S., Assoc. Prof. Agr. Ed. *H. R. Culver, M. S., Asst. Supvr. Agr. Ed. *J. E. Deloney, M. S., Instr. Agr. Ed. *B. P. Dilworth, M. S., Asst. Supvr. Agr. Ed. *T. L. Faulkner, M. S., Asst. Supvr. Agr. Ed. *T. W. Gandy, M. S., Instr. Agr. Ed. *H. F. Gibson, M. S., Asst. Supvr. Agr. Ed. *H. W. Green, M. S., Asst. Supvr. Agr. Ed. *E. L. McGraw, M. S., Subject Matter Spec.

in Agr. Ed.
*H. T. Pruett, M. S., Asst. Prof. Agr. Ed.
*L. L. Sellers, M. S., Assoc. Supvr. Agr. Ed.

Engineering (Agr.):

*†F. A. Kummer, M. S., Head of Dept.
†M. O. Berry, B. S., Asst. Agr. Engin. (Coop. U. S. D. A.).
†J. L. Butt, M. S., Assoc. Agr. Engin.
‡E. H. Chambers, B. S., Asst. Ext. Agr.

‡E. H. Chambers, B. S., Asst. Ext. Ayr. Engin.

†J. E. Conniff, M. S., Asst. Agr. Engin.

†G. E. Coppock, B. S., Junior Agr. Engin.

(Coop. U. S. D. A.).

†T. E. Corley, M. S., Asst. Agr. Engin.

‡S. R. Doughty, B. S., Ext. Soil Conserv.

*W. T. Dumas, M. S., Asst. Prof. Agr. Engin.

‡Lawrence Ennis, B. S., E. E., Spec. in Soil Engin.

†Lawrence Ennis, B. S., E. E., Spec. in Soil Engin.
†J. O. Helms, Jr., B. S., Farm Supt.
†V. C. Jamison, Ph. D., Soil Sci. (Coop. U. S. D. A.).
†E. G. McKibben, Ph. D., Prin. Agr. Engin. (Coop. U. S. D. A.).
*J. H. Neal, A. E., Ph. D., Prof. Agr. Engin.
†I. F. Reed, M. S., A. E., Senior Agr. Engin.
†I. S. Renoll, M. S., Asst. Prof. Agr. Engin.
*M. V. Stephens, B. S., Instr. Agr. Engin.
†C. M. Stokes, M. S., Assoc. Agr. Engin.
†th. A. Weaver, M. S., Agt., Soil Sci. (Coop. U. S. D. A.).

Extension Administration:

‡P. O. Davis, B. S., Dir. *‡J. L. Lawson, B. S., Asst. Dir.

Forestry:

*†H. E. Christen, M. F., Assoc. Prof. and Assoc. For.

*B. M. Cool., M. S., Asst. Prof. For.

*†W. B. DeVall, M. S., Assoc. Prof. and Assoc. For.

*†Henry Dorr, Jr., M. S. F., Assoc. Prof. and Assoc. For.

*†Henry Dorr, Jr., M. S. F., Assoc. Prof. and Assoc. For.
†G. I. Garin. Ph. D., Assoc. For.
*†W. W. Gaskins, M. S. F., Asst. Prof. and Asst. For.
†J. F. Goggans, M. F., Asst. For.
†C. W. Leach, M. F., Asst. Prof. and Asst. For.
†K. W. Livingston, M. F., Asst. For.
‡I. R. Martin, B. S. F., Est. For.
*†J. T. May, M. S. F., Assoc. Prof. and Assoc. For.

For

†F. F. Smith, M. F., M. A., Assoc. For. *†F. H. Vogol, M. S., Prof. For.; For. †W. W. Wills, B. S., Asst. in For.

Home Economics, Dept. of Expt. Sta.:

†Ernestine I. Frazier, Ph. D., Head of Dept. †Gladys S. Garrow, M. S., Asst. Home Econ.

Home Economics, School:

*Mrs. Marion W. Spidle, M. A., Dean of School

*Mrs. Dorothy D. Arnold, M. A., Asst. Prof. Home Econ.

*Elizabeth Cornwall, Asst. Prof. Home Econ. ;Lavada Curtis, M. S., Food Preservation

Spec.
‡Levice Ellis, B. S., Clothing and Handi-crafts Spec.
*Helen M. Finch, M. A., Asst. Prof. Home

Econ.

*Ernestine I. Frazier, Ph. D., Prof. Home Econ. *Gladys S. Garrow, M. S., Asst. Prof. Home

Econ

*Dana K. Gatchell, M. S., Prof. Home Econ. *Jewel Golden, M. A., Asst. Prof. Home Econ.

*Thelma Graves, M. S., Asst. Prof. Home Econ

†Mary Hulsey, M. A., Spec. in Foods and Nutr.

‡Elta Majors, M. S., Child Care and Family Life Spec. ‡Stella Mitchell. M. A., Econ. Home Mgt. *Mrs. Ruth D. Morley, M. S., Assoc. Prof. Home Econ.

*Jane Oldacre, M. S., Instr. Home Econ. ‡Alice Peavy, B. S., Econ. Home Furnish-

ings.
*Mrs. Virginia C. Ritchie, M. S., Asst. Prof.
Home Econ.

*Mrs. Irene Roberts, M. A., Asst. Prof. Home Econ.

Econ.
*Lilly H. Spencer. M. S.. Asst. Dean and Assoc. Prof. Home Econ.
*Mary N. Summers, B. S., Instr. Home Econ.
*Wathena E. Temple, M. S., Asst. Prof. Home Econ.
*Mildred S. Van deMark, M. A., Asst. Prof. Home Econ.
*Marilyn L. Westcott, B. S., Instr. Home Econ.

Econ.

Horticulture:

†L. M. Ware, M. S., Head of Dept. *H. S. Fisher, B. L. A., Assoc. Prof. Orna-mental Hort. ‡J. C. Ford, M. S. Spec. in Gardens and

*J. C. Ford, M. S. Spec. in Gardens and Orchards.

*J. J. Franklin, B. S., Instr. Ornamental Hort.

†W. H. Greenleaf, Ph. D., Veg. Breeder.

*†T. B. Hagler, M. S., Assoc. Prof. and Assoc.

Hort

*†C. W. Reynolds, M. S., Instr. and Asst. in Hort.

†T. P. Whitten, M. S., Asst. Hort.

Marketing:

‡A. W. Jones, B. S., Mktg. Spec. ‡G. O. Antonie, B. S. F., Ext. Timber Mktg.

Spec. John Bagby, B. S., Spec. in Commercial

Hort. ‡J. P. Bell, Corn Prod. Mktg. Spec. ‡Austin Ezzell, B. S., Spec. in Consumer

Mktg. . H. Ford, B. S. F., Ext. Timber Mktg.

Spec. in Farm Mechanization.

B. S. Spec. in Farm Mechanization.

R. S. Spec. in Livestock

tw. H. Gregory, B. S., Spec. in Livestock Mktg.
tR. R. Jones, B. S., Spec. in Seed Crops

tR. R. Jones, B. S., Spec. in Seed Crops Mktg. tE. F. Kennamer, B. S., Spec. in Wildlife Mktg.

Marketing—Continued

‡E. L. Kidd, Jr., B. S. F., Ext. Timber Mktg. Spec. ‡J. B. Mathews, B. S. F., Ext. Timber Mktg.

Spec.

Dorothy Overbey, B. S., Spec. in Consumer Ed. ‡J. R. Roberts, B. S. F., Ext. Timber Mktg.

SpecJeet Rowell, B. S. F., Ext. Timber Mktg.

Spec. ‡J. D. Sellers, B. S. F., Ext. Timber Mktg.

Spec. ‡P. A. Weekley, B. S. F., Ext. Timber Mktg.

Spec. tJ. P. Weeks, B. S., Mktg. Spec. in Poultry. tJ. D. Wright, B. S. F., Ext. Timber Mktg. Spec.

Poultry Husbandry:

*†D. F. King, M. S., Head of Dept.

*†G. J. Cottier, M. A., D. V. M., Prof. Poultry
Husb.; Poultry Husb.

*†§S. A. Edgar, Ph. D., Assoc. Prof. and Assoc.
Poultry Path.

†J. G. Goodman, M. S., Assoc. Prof. and
Assoc. Poultry Husb.

*†§G. R. Ingram, B. S., Asst. Prof. and Asst.
Poultry Husb.

Veterinary Medicine:

*R. S. Sugg, B. S., D. V. M., Dean of School (State Vet.). *§W. S. Bailey, D. V. M., D. S., Head Prof. Path.

*F. A. Clark, B. S., D. V. M., Prof. Bact.

*N. D. Conner, D. V. M., M. S., Asst. Prof. Anat. and Histol.

*T. C. Fitzgerald, D. V. M., M. S., Head Prof. Anat. and Histol.

*D. S. Folse, D. V. M., M. S., Assoc. Prof. Prof.

Parasit

*W. J. Gibbons, D. V. M., M. S., Head Prof. Surg. and Med. (Large Animals).

*J. E. Greene, D. V. M., M. S., Head Prof. Surg. and Med. (Small Animals).

*Marie E. Hall, D. V. M., Instr. Bact.

*B. F. Hoerlein, D. V. M., Assoc. Prof. Surg. and Med.

and Med.

and Med.

*J. F. Hokanson, B. S., D. V. M., Assoc. Prof. Surg. and Med.

*W. N. Konde, D. V. M., Assoc. Prof. Surg. and Med.

*A. A. Leibold, D. V. M., Head, Prof. Bact. and Path.

*L. O. Llewellyn, D. V. M., Assoc. Prof. Surg. and Med.

*F. H. Manley, M. V. Sc., M. R. C. V. S., Prof. Bact.

*I. S. McAdory, B. S., D. V. M., Prof. Surg. and Med. (Assoc. State Vet.)

*J. A. McBee, M. S., D. V. M., Asst. Prof. Surg. and Med.

*C. S. Roberts, D. V. M., M. S., Assoc. Prof. Path.

*J. A. Schmitz, B. S., D. V. M., Instr. *R. W. Sheehy, D. V. M., Instr. Anat. and Histol.

*E. V. Stromlund, Jr., D. V. M., Assoc. Prof.

*E. V. Strömlind, Jr., D. V. M., Assoc. Proj. Physiol.

*A. M. Wiggins, D. V. M., Asst. Prof. Surg. and Med.

*M. W. Williams, D. V. M., Assoc. Prof. Anat. and Histol.

*E. S. Winters, B. S. D. V. M., Head Prof. Physiol. and Therapeutics.

Zoology-Entomology:

*†F. S. Arant, Ph. D., Head of Dept. †A. L. Black, Supt. of Ponds.

Zoology-Entomology-Continued

*†J. S. Dendy, Ph. D., Assoc. Prof. and Assoc. Zool.-Ent.

Zool. Ent.

*J. L. Dusi, Ph. D., Asst. Prof. Zool. Ent.
†W. G. Eden, Ph. D., Assoc. Ent.

*H. G. Good, Ph. D., Prof. Zool. Ent.

*F. E. Guyton, M. S., Prof. Zool. Ent.
†A. O. Haugen, Ph. D., Leader Wildlife Res.
Unit (Coop. U. S. D. I.).

*W. D. Ivey, B. S., Instr. Zool. Ent.

*†J. M. Lawrence, M. S., Asst. Prof. and Asst.
Fish Culturist.

*A. M. Pearson, Ph. D., Assoc. Prof. Zool.
Ent.

*†E. E. Prather. M. S., Assoc. Prof. and

*†E. E. Prather, M. S., Assoc. Prof. and Assoc. Fish Culturist. *R. M. Prather, M. S., Asst. Prof. Zool. ‡W. A. Ruffin, M. S., Ext. Ent. *†H. S. Swingle, M. S., Prof. Fish Culture; Fish Culturist.

Miscellaneous:

‡Mrs. Lillie M. Alexander, M. A., State Home

Dem. Agt.
†C. H. Cantrell, A. B. L., M. A., Dir. of
Libraries.

**T. W. Lumpkin, B. S., Dist. Agt.

**T. W. T. Ingram, Business Mgr.

**Traley Lee, M. A., Agr. Libr.
†*Cindy Lester, M. A., Dist. Agt.

**T. W. Lumpkin, B. S., Dist. Agt.
†*Lueile Mallette, B. S., Dist. Agt.
†*Lucile Mallette, B. S., Dist. Agt.
†*M. Reaves, B. S., Asst. Dist. Agt.
†*J. D. Samford, Dist. Agt.
†*J. D. Sargent, M. S., Bec. in Community Work.

†*L. L. Self, B. S., Dist. Agt.
†*Emmett Sizemore, B. S., Dist. Agt.

**W. H. Weidenbach, B. S., Dist. Agt.

**W. H. Weidenbach, B. S., Asst. to Dean and Dir.
†*H. E. Williams, A. B., Asst. to Dir.

Substations:

Black Belt Substa., P. O., Marion Junction—
K. G. Baker, B. S., Supt.
W. B. Kelley, Asst. Supt.
Chilton Area Hort, Substa., P. O. Clanton—
C. C. Carlton, B. S., Supt.
Gulf Coast Substa., P. O. Fairhope—
Otto Brown, M. S., Supt.
J. E. Barrett, Jr., B. S., Asst. Supt.
H. F. Yates, B. S., Asst. Supt.
Lower Coastal Plain Substa., P. O. Camden den— V. L. Brown, B. S., Supt. North Alabama Hort. Substa., P. O., Cull-

North Alabama Hort. Substa., P. O., Cuttman.—
T. S. Morrow, B. S., Supt.
Piedmont Substa., P. O. Camp Hill—
E. L. Mayton, M. S., Supt.
Sand Mountain Substa., P. O. Crossville—
S. E. Gissendanner, B. S., Supt.
M. W. Alison, B. S., Asst. Supt.
E. E. Hutto, B. S., Asst. Supt.
Tenn. Valley Substa., P. O. Belle Mina—
Fred Stewart, B. S., Supt.
J. K. Boseck, B. S., Asst. Supt.
Upper Coastal Plain Substa. P. O., Winfield—
W. W. Cotney, B. S., Supt.
Wiregrass Substa., P. O., Headland—
C. A. Brogden, B. S., Asst. Supt.
J. G. Starling, B. S. Asst. Supt.
M. C. Sconyers, B. S., Asst. Supt.

Alabama Agricultural and Mechanical College, Normal

*Agricultural faculty.

‡Extension staff.

*J. F. Drake, A. M., Ph. D., President *R. D. Morrison, M. S., Dir. of Agr.

^{*}G. Bass, Ph. D., Sci. *L. W. Bonner, M. S., Teacher Trainer.

^{*}Pauline Brooks, B. S., Home Econ. *Mrs. J. T. Bulls, M. S., Home Econ.

- *R. A. Carter, M. S., Sci.

 *V. M. Chambers, Ph. D., Biol.

 *Mrs. M. M. Chambers, M. S., Biol.

 *M. Collier, B. S., Home Econ.

 *O. E. Collier, B. S., Landsc. Arch.

 *C. S. Coble, M. S., Pouttry.

 *L. L. Crump, B. S., Agr. Engin.

 *Mrs. Maggie W. Elmore, B. S., Home Econ.

 *H. E. Grier, M. S., An. and Dairy Husb.

 ‡Ethel M. Harris, B. S., Home Dem. Agt.

 *Francis Higgins, B. S., Asst. Libr.
- *Mrs. Abigail K. Hobson, M. S., Supvr. Home Econ.

 *Mrs. Irma L. Hollins, M. S., Home Econ.

 *Laura E. Jones, L. B. S., Asst. Libr.

 *Gilla R. Lewis, B. S., Home Econ.

 *Lucile A. Love, B. S., Libr.

 *G. C. Moore, B. S., Voc. Agr.

 *T. V. Morris, M. S., Hort.

 *D. W. Ryan, A. B., Sci.

 ‡Warren Scott, B. S., Agr. Dem. Agt.

 *Winfred Thomas, M. S., Agron.

ALASKA

University of Alaska (Divisions of Agriculture and Home Economics), the Agricultural Experiment Station, and the Extension Service, College

- *Agricultural faculty. †Station staff. ‡Extension staff.
- *Terris Moore, M. B. A., D. C. S., President. *‡L. O. Hollist, B. S., Admin. Asst. for Agr., Dir. of Ext. Service. *W. E. Craumer, B. S., Treas.

Agriculture:

Assoc. Prof. Agr. and

*Graham Fulton, B. S., Instr. Agron.

Chemistry:

- *W. S. Wilson, S. M., Ph. D., Prof. and Head of Dept. *R. D. Lowrey, Ph. D., Asst. Prof. Chem. *W. B. Guenther, M. S., Instr. Chem.

Extension Administration:

- ‡L. O. Hollist, B. S. Dir. ‡Lydia Fohn-Hansen, M. S., Home Dem.
- Leader. ‡Edith Hablutzel, B. S., Asst. 4-H Club
- Leader.

 †Marylou Lashbrook, M. S., Dist. Home Agt.
 (P. O., Palmer).

 †Parker Lester, B. S., Dist. Agt. (P. O., Pal-
- †Marjorie E. Sheridan, B. S., Dist. Home Agt. (P. O., Anchorage), †Ruth Wilson, B. S., Asst. to Home Dem. Leader (P. O. Fairbanks).

Home Economics:

- *Mrs. Lola C. Tilly, M. S., Prof. and Head
- *Katharine Duroe, M. S., Asst. Prof. Home

Agricultural Experiment Stations (Coop. U. S. D. A.):

- †D. L. Irwin, B. S., Dir. (P. O., Palmer).
 †M. F. Babb, Ph. D., Head Hort. Dept.
 (P. O., Palmer).
 †B. M. Bensin, D. Sc., Agron.

Agricultural Experiment Stations (Coop. U. S. D. A.) -Continued

- †C. I. Branton, B. S., Head Agr. Engin. (P. O., Palmer). †C. H. Dearborn, Ph. D., Hort. (P. O., Pal-

- †C. H. Dearborn, Ph. D., Hort. (P. O., Furmer).

 †E. G. Ganschow, Admin. Officer (P. O., Palmer).

 †H. J. Hodgson, M. S., Head Agron. Dept. (P. O., Palmer).

 †H. A. Johnson, M. S., Head Agr. Econ. Dept. (P. O., Palmer).

 †A. Kallio, M. S., Hort. (P. O., Fairbanks).

 †W. M. Laughlin, Ph. D., Soil Chem. (P. O., Palmer).

 †J. R. Leekley, B. S., Biol. in charge (P. O., Petersburg).

- †3. R. Leerley, B. S., Biol. in charge (P. O., Petersburg).
 †S. C. Litzenberger, Ph. D., Plant Breeder (P. O., Palmer).
 †P. F. Martin, M. A., Soil Sci. (P. O., Palmer).
- †A. H. Mick, Ph. D., Head Soils Dept. (P. O., Palmer). †Lucille K. Mick, M. A., Libr. (P. O., Pal-
- †W. R. Middleton, B. S., Dairy Husb. (P. O., Palmer).
 †C. A. Moore, M. S. (P. O., Palmer).
 †J. E. Osguthorpe, B. S., Supt. and Agron.
 †Kathryn R. Pippel, Admin. Asst. (P. O.,
- Palmer).

- Palmer).
 †L. A. Ross, Supt., Matanuska Expt. Sta.
 (P. O., Palmer).
 †W. J. Sweetman, M. S., Head An. Husb.
 Dept. (P. O., Palmer).
 †F. L. Swingle, B. S., An. Husb.
 †R. H. Washburn, Ph. D., (P. O., Palmer).

ARIZONA

College of Agriculture, the Agricultural Experiment Station, and the Agricultural Extension Service of the University of Arizona, Tucson

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence.

- *J. B. McCormick, S. J. D., President of University.

 *†P. S. Burgess, Ph. D., Dean Coll. of Agr., Dir. of Sta.

 *†R. S. Hawkins, Ph. D., Vice Dean of Coll., Vice Dir. of Sta.

 ‡C. U. Pickrell, B. S., Dir. of Agr. Ext. Service.

 *John Anderson, Comptroller.

Agronomy:

- *†L. V. Sherwood, Ph. D., Head of Dept. *†L. C. Chapman, M. S., Asst. Prof. and Asst.
- *†H. C. Chapman, M. S., Asst. Froj. and Asst. Agron.

 *†H. P. Cords, M. S., Instr. and Asst. Agron.

 ‡C. C. Eliwood, B. S., Ext. Agron.

 †Karl Harris, M. A., Assoc. Irrig. Engin.

 (Coop. U. S. D. A.: P. O., Phoenix).

 †Mrs. Edna Lewis, Lab Asst.

 *†W. I. Thomas, M. S., Instr. and Asst. Agron.

Animal Husbandry:

*†E. B. Stanley, M. S., Head of Dept. ; Walter Armer, B. S., Ext. An. Husb.

Animal Husbandry-Continued

- *†Bartley Cardon, Ph. D., Asst. Prof. An.
 Husb.; Asst. An. Husb. and An. Path.

 *†V. L. Marsh, Ph. D., Asst. Prof. and Asst.
 An. Husb.

 *†O. F. Pahnish, M. S., Instr. and Asst. An.
 Husb.

 *†C. E. Safley, M. S., Instr. and Asst. An.
 Husb.

Animal Pathology:

- *†W. J. Pistor, B. S., D. V. M., Head of Dept. †Joan Atterbury, M. A., Res. Asst. *†V. H. Fisher, B. S., D. V. M.

Botany and Range Ecology:

***No. S. Phillips, Ph. D., Head of Dept.

**†W. S. Phillips, Ph. D., Head of Dept.

*†A. L. Brown, M. S., Instr. Bot. and Range

Ecol.; Asst. Range Ecol.

*†W. L. Ehrler M. S., Instr. and Asst. Bot.

and Range Ecol.

†A. C. Everson, M. S., Res. Asst.

*R. W. Hoshaw, Ph. D., Instr. Bot.

*†R. R. Humphrey, Ph. D., Assoc. Prof. Bot.;

Assoc. Range Ecol.

*†Mrs. Kittie F. Parker, Ph. D., Asst. Prof.

and Asst. Bot.

*Barbara J. Peebles, M. A., Instr. Bot.

*\$J. J. Thornber, A. M., Taxonomist.

Chemistry (Agr.) and Soils:

†W. T. McGeorge, M. S., Head of Dept.
†E. L. Breazeale, M. S., Asst. Agr. Chem.
†L. L. Brimhall, B. S., Asst. Agr. Chem.
(P. O. Phoenix).

*†T. F. Buehrer, Ph. D., Prof. Agr. Chem.;
Phys. Chem.
†G. E. Draper, M. S., Asst. Agr. Chem.
(P. O., Phoenix).

*†W. H. Fuller, Ph. D., Assoc. Prof. and
Assoc. Agr. Chem.

*†H. V. Smith, M. S., Assoc. Prof. and Assoc.
Agr. Chem.

Dairy Husbandry:

*†R. N. Davis, M. S., Head of Dept.

†D. E. Beecroft, B. S., Mgr. of Milk Proc-

essing

*†F. G. Harland, B. S., Instr. and Asst. Dairy Husb.

†J. W. Stull, M. S., Asst. Prof. and Asst. Dairy Husb.

‡W. R. Van Sant, B. S., Ext. Dairying Spec.

Economics (Agr.):

*fG. W. Barr, M. S., D. Ed., Head of Dept. \$\pm\$A. B. Ballantyne, M. S., Ext Rural Sociol. Spec. \$\pm\$Scott Hathorn, Jr., Ph. D., Assoc. Agr.

Econ.

†R. D. Rehnberg, M. S., Asst. Agr. Econ. †J. D. Rowell, M. S., Res. Asst. *†§R. E. Seltzer, M. S., Assoc. Prof. and Assoc. Agr. Econ.

Education (Agr. and Home Econ.):

*R. W. Cline, Ph. D., Head of Dept. *Faye C. Jones, M. A., Assoc. Prof. Voc. Ed. in Home Econ. *W. A. Schafer, B. S., Asst. Prof. Agr. Ed.

Engineering (Agr.):

*†H. C. Schwalen, M. S., C. E., Head of Dept. *†K. R. Frost, M. S., Asst. Prof. and Asst. Agr. Engin.

Agr. Engin. *†§E. R. Holekamp, B. S., Instr. and Asst.

Agr. Engin. †R. J. Shaw, B. S., Asst. Agr. Engin. †G. E. P. Smith, C. E., D. Eng., Irrig. Engin.

Entomology

*†L. A. Carruth, Ph. D., Head of Dept. *†J. N. Roney, Ph. D., Ext. Ent. (P. O., Phoenix).

Extension Administration:

tC. U. Pickrell, B. S., Dir.

†H. R. Baker, M. S., Asst. Dir.

†Helen L. Church, M. S., Actg. State Leader Home Dem. Work

†\$Jean M. Stewart, M. A., State Leader Home Dem. Work.

†K. L. McKee, A. B., State Leader 4-H Club Work.

Home Economics:

*B. Eleanor Johnson, Ph. D., Dir. of School. *Alice B. Books, B. S., Instr. Home Econ.

Home Economics-Continued

‡Helen L. Church, M. S., Ext. Clothing Spec. *Martha K. Fees, M. S., Instr. Home Econ. *Mildred R. Jensen, M. A., Asst. Prof. Home Econ

*Edith S. Ranney, M. A., Assoc. Prof. Home

Econ. ‡Grace Ryan, M. A., Ext. Spec. in Home

Mgt. *Ethel M. Thompson, Ph. D., Prof. Home

Econ.
*Mary A. Wood, M. S., Asst. Prof. Institutional Mgt.

Horticulture:

*†Leland Burkhart, Ph. D., Head of Dept.
*†Steve Fazio, B. S., Instr. and Asst. Hort.
†R. E. Foster, II, Ph. D., Assoc. Hort.
†R. H. Hilgeman, M. S., Assoc. Hort. (P. O.,

†R. H. Hilgeman, M. S., Assoc. How. (2. 0., Tempe).

*†A. H. Lange, M. S., Asst. Prof. and Asst. Hort.

†W. D. Pew, Ph. D., Assoc. Hort. (P. 0., Tempe).

†G. C. Sharples, M. S., Asst. Hort. (P 0., Tempe).

‡H. F. Tate, B. S., Ext. Hort.

†C. W. Van Horn, M. S., Assoc. Hort (P. 0., Yuma).

Nutrition:

†A. R. Kemmerer, Ph. D., Head of Dept. †Alice Niles, B. S., Res. Asst. †M. G. Vavich, Ph. D. Assoc. Nutr. Chem.

Plant Breeding:

*†W. E. Bryan, M. S., Head of Dept. *†E. H. Pressley, M. S., Prof. Plant Brdg.; Assoc. Plant Breeder. †Smith Worley, Jr., B. S., Asst. Plant Breeder.

Plant Pathology:

*†J. G. Brown, Ph. D., Head of Dept.

*†Mrs. Alice M. Boyle, Ph. D., Asst. Prof. and Res. Asst. in Plant Path.

*†P. D. Keener, Ph. D., Asst. Prof. and Asst. Plant. Path.

*†R. B. Streets, Ph. D., Prof. and Assoc. Plant Path.

Poultry Husbandry:

*†Harry Embleton, B. S., Head of Dept. *†H. B. Hinds, M. S., Assoc. Prof. and As-soc. Poultry Husb. ‡W. R. Van Sant, B. S., Ext. Poultry Spec.

Miscellaneous:

*F. C. Cromwell, M. A., Libr. *†Nancy L. Dougherty, B. A., Asst. in Pubs. †‡B. C. Markland, B. A., Radio Dir. ‡Joe McClelland, B. J., Information Spec.

Substations:

Safford Farm, P. O., Safford—
A. M. Bliss, B. S., Supt.
Salt River Valley Citrus Res. Farm., P. O.,
Tempe—
R. H. Hilgeman, M. S., Supt.
Salt River Valley Veg. Res. Farm, P. O.,
Tempe—
W. D. Pew, Ph. D., Supt.
Salt River Valley Expt. Farm, P. O.,
Mean—

Salt Riv

Mesa—
D. C. Aepli, Supt. and Gen. Supt. of Farms.
University Farm, P. O., Tucson—
E. H. Hussmann, Supt.
University Poultry Farm, P. O. Tucson—
F. W. Richardson, B. S., Supt.
Yuma—
Vuma—
C. W. Van Horn, M. S., Supt.

ARKANSAS

College of Agriculture and the Agricultural Experiment Station of the University of Arkansas, Fayetteville

*College faculty. †Station staff. ‡Extension staff. ence. ||Military leave. Leave of absence.

*L. W. Jones, Ph. D., President of University.

*†‡L. S. Ellis, Ph. D., Dean Coll. of Agr., Dir. of Sta., Dir. of Agr. Ext. Service.

†R. P. Bartholomew, Ph. D., Assoc. Dir. of Sta.

‡\$A. D. Gates, B. S., Assoc. Dir. of Agr. Ext. Service (P. O. Box 391, Little Rock).

*G. T. Hudson, Ph. D., Asst. Dean Coll. of Agr.

*†T. C. Carlson, B. A., Treas.

Agronomy:

*†D. A. Hinkle, Ph. D., Prof. and Head of Dept

*†R. L. Beacher, Ph. D., Asst. Prof. and Asst. *†D. A. Brown, Ph. D., Asst. Prof. and Asst.

*†A. B. Burdick, Ph. D., Asst. Prof. and Asst. Agron.

††A. B. Burdick, Ph. D., Asst. Prof. and Asst. Agron.

††A. M. Davis, M. S., Instr. and Junior Agron.

†J. M. Jackson, M. S., Junior Agron.

†Marvin Lawson, B. S., Soil Sci. (Coop.

‡C. F. Lund, B. S., Ext. Soils Spec. (P. O. Box 391, Little Rock).

*†E. O. McLean, Ph. D., Asst. Prof. and Asst.

Agron.

\$ || W. R. Perkins, M. S., Ext. Agron. (P. O. Box 391, Little Rock).

*†\$P: C. Sandal, M. S., Asst. Prof. and Asst.

Agron.

‡J. R. Smith, M. S., Ext. Cotton Spec. (P. O. Box 391, Little Rock).

†P. E. Smith, Ph. D., Asst. Prof. and Asst.

*†P. E. Smith, Ph. D., Asst. Prof. and Asst. Agron.
†F. W. Snyder, Ph. D., Asst. Agron.
†R. O. Thomas, Ph. D., Assoc. Plant Physiol. (Coop. U. S. D. A.).
*R. L. Thurman, M. S., Instr. Agron.
†J. O. Ware, Ph. D., Prof. Agron.; Agron. (Coop. U. S. D. A.).
†W. C. White, B. S., Junior Agron. (P. O., Osceola).
†W. J. Wiser, M. S., Junior Agron.

Animal Industry:

*†Warren Gifford, Ph. D., Prof. and Head of Dept.

*†J. N. Beasley, D. V. M., Instr. and Junior in Vet. Sci. *†C. J. Brown, M. S., Asst. Prof. and Asst.

in An. Indus.

*†J. L. Cason, M. S., Instr. and Junior in An. Indus. *†P. B. Doby, D. V. M., Asst. Prof. and Asst.

Vet.

‡G. W. Ford, B. S., Ext. Meats Spec. (P. O. Box 391, Little Rock).

*†E. R. Garrison, Ph. D., Prof. An. Indus.;

An. Indus. *†J. C. Gilbreath, M. S., Asst. Prof. and Asst.

in An. Indus.

*†L. L. Hammonds, M. S., Instr. and Junior An. Indus. (Poultry).

‡T. P. Head, B. S., Est. Dairyman.

*†M. C. Heck, M. S., Asst. Prof. and Asst.

in An. Indus.

†A. L. Holley, B. S., Ext. Dairyman.

*†\$0. H. Horton, M. A., Asst. Prof. and Asst.

*†§O. H. Horton, M. A., Asst. Prof. and Asst. in An. Indus.

*†§M. R. McClung, M. S., Asst. Prof. and Asst. in An. Indus. (Poultry).

†M. W. Muldrow, B. S., Ext. An. Husb. (P. O. Box 391, Little Rock).

†W. S. Pollard, B. S. Ext. Poultryman (P. O. Box 391, Little Rock).

*†M. L. Ray, M. S., Asst. Prof. and Asst. in An. Indus.

†E. S. Ruby, M. S., Asst. Prof. and Asst. in An. Indus.

*†R. M. Smith, M. A., Assoc. Prof. and Assoc. Poultry Husb.

*†O. T. Stallcup, Ph. D., Assoc. Prof. and Assoc. in An. Indus.

Animal Industry—Continued

*†E. L. Stephenson, M. S., Asst. Prof. and Asst. in An. Indus.

*†H. H. Voelker, M. S., Asst. Prof. and Asst. in An. Indus.

Bacteriology:

†Delbert Swartz, Ph. D., Prof. and Head of Dept.

†Fred Heiligman, M. A., Instr. and Junior Bact

† §P. H. Matischeck, M. S., Instr. and Junior
Bact. McArdle, M. S., Instr. and Junior Bact.

Chemistry (Agr.):

*†Barnett Sure, Ph. D., Prof. and Head of Dept†Leslie Easterling, B. S., Res. Asst. in Agr.

†M. C. Kik, Ph. D., Assoc. Agr. Chem.

Economics (Rural) and Sociology:

†J. W. White, Ph. D., Prof. and Head of Dept.

†Clifford Alston, M. S., Ext. Mktg. Spec. (P. O. Box 391, Little Rock).
†T. E. Atkinson, M. S., Ext. Econ. (P. O. Box 391, Little Rock).
*H. A. Brockway, B. S., Instr.
†C. C. Cable, Jr., M. S., Agt. (Coop. U. S. D. A)

D. A.

*†J. L. Charlton, Ph. D., Assoc. Prof. and Assoc. Rural Sociol. ‡W. M. Cooper, B. S., Ext. Studies Spec. (P. O. Box 391, Little Rock). *†V. B. Fielder, M. S., Assoc. Prof. and Rural

Econ.

†A. M. Hodgkins, M. S., Asst. in Agr. Econ.

*†\$Hilliard Jackson, M. S., Asst. Prof. and Asst. Agr. Econ.

†D. G. Lafferty, B. S., Junior Agr. Econ.

‡R. E. Lambert, M. S., Asst. Ext. Mktg. Spec. (P. O. Box 391, Little Rock).

†L. T. Lankford, B. S., Ext. Poultry Mktg. Spec. (P. O. Box 391, Little Rock).

*†J. M. Law, M. S., Asst. Prof. and Asst. Agr. Econ.

*†H. J. Meenen, M. S., Asst. Prof. and Asst. Agr. Econ.

*†H. J. Meenen, M. S., Asst. Prof. and Asst. Agr. Econ.

‡C. R. Moore, B. S., Ext. Mktg. Spec. (P. O. Box 391, Little Rock).

†M. W. Slusher, M. S., Agr. Econ. (Coop. U. S. D. A.).

*†J. D. Tarver, M. S., Asst. Prof. and Asst. Rural Sociol.

‡F. B. Wisdom, B. S., Ext. Livestock Mktg. Spec. (P. O. Box 391, Little Rock).

‡G. P. Wright, M. S., Ext. Community Activities Spec. (P. O. Box 391, Little Rock).

Editorial:

† Carl Hancock, A. B. J., Agr. Editor.

†V. E. Heath, Ext. Photog. and Illustrator
(P. O. Box 391, Little Rock).

†N. D. Holmes, B. S., Asst. Ext. Editor
(P. O. Box 391, Little Rock).
†Mrs. Marie L. Lavallard, M. S., Asst. Agr.

†Mrs. Eula N. Oliver, B. S., Asst. Ext. Editor (P. O. Box 391, Little Rock).

Education (Agr. and Home Econ.):

*R. W. Roberts, Ph. D., Prof. Agr. Ed.

*J. C. Atherton, Ph. D., Asst. Prof. Agr. Ed.

*Denver Hutson, M. S., Asst. Prof. Agr. Ed.

*F. R. Johnston, M. S., Asst. Prof. Agr. Ed.

*L. N. Shoptaw, Ph. D., Assoc. Prof. Agr. Ed.

*Mrs. Margaret E. Thompson, B. S., Instr.

Home Econ. Ed.

*Mrs. Beulah Whorley, M. S., Assoc. Prof.

Home Econ. Ed.

Home Econ. Ed.

Engineering (Agr.):

*†Kyle Engler, M. S., Prof. and Head of Dept.

†H. E. Beasley, B. S., Ext. Cotton Ginning
Spec. (P. O. Box 391, Little Rock).

*†R. H. Benedict, M. S., Asst. Prof. and
Asst. Agr. Engin.

†W. J. R. Browder, M. S., Ext. Agr. Engin.
(P. O. Box 391, Little Rock).

*†W. F. Buchele, B. S., Asst. Prof. and Asst.

Agr. Engin. *†J. E. Ferguson, M. S., Asst. Prof. and Asst.

*† J. E. Felgson, M. S., Est. Agr. Engin. (P. O. Box 391, Little Rook).

*†T. E. Hazen, M. S., Instr. and Junior Agr. Engin.

*F. R. Johnston, M. S., Asst. Prof. Agr. Engin.

*†Xzin McNeal, M. S., Assoc. Prof. and Assoc.

Agr. Engin. *†B. Y. Richardson, M. S., Asst. Prof. and

*†H. S. Stanton, M. S., Instr. and Junior Agr. Engin.

*†H. S. Stanton, M. S., Instr. and Junior Agr. Engin.

*G. W. Steinbruegge, M. S., Assoc. Prof. Agr. Engin.

Agr. Engin. ‡C. F. Williams, B. S., Ext. Agr. Engin.

Entomology:

*†W. J. Baerg, Ph. D., Prof. and Head of

*†D. J. Baerg, Fh. D., Froj. and Head of Dept.

*†Dwight Isely, M. A., Prof. Ent.; Ent.

*†C. G. Lincoln, Ph. D., Prof. Ent.; Ent.

*†\$F. D. Miner, M. S., Asst. Prof. and Asst.

†§F. D. Miner, M. S., Asse. Prof. and Asse.

††L. O. Warren, M. S., Instr. and Junior Ent.

††F. E. Whitehead, Ph. D., Assoc. Prof. and

Assoc. Ent.

†W. D. Wylie, Ph. D., Asst. Prof. and Asst.

Ent.

Extension Administration:

Extension Administration:

‡L. S. Ellis, Ph. D., Dir.

‡\$A. D. Gates, B. S., Assoc. Dir. (P. O., Box 391, Little Rock).

‡L. A. Dhonau, B. S., Actg. Assoc. Dir. P. O. Box 391, Little Rock).

‡C. A. Vines, B. S., Actg. Asst. Dir. (P. O. Box 391, Little Rock).

‡Clifford Alston, M. S., Actg. Dist. Agt. (P. O. Box 391, Little Rock).

‡K. S. Bates, B. S., Dist. Agt. (P. O. Box 391, Little Rock).

‡J. O. Fullerton, B. S., Dist. Agt. (P. O. Box 391, Little Rock).

‡J. R. Smith, M. S., Actg. Dist. Agt. (P. O. Box 391, Little Rock).

‡J. R. Smith, M. S., Actg. Dist. Agt. (P. O. Box 391, Little Rock).

‡SJ. M. Thomason, B. S., Dist. Agt. (P. O. Box 391, Little Rock).

†Mrs. Flora Friend, B. S., Dist. Home Dem. Agt. (P. O. Box 391, Little Rock).

‡Mrs. Esther G. Kramer, B. S., Dist. Home Dem. Agt. (P. O. Box 391, Little Rock).

‡Mrs. Esther G. Kramer, B. S., Dist. Home Dem. Agt. (P. O. Box 391, Little Rock).

‡D. S. Lantrip, B. S., State Club Agt. (P. O. Box 391, Little Rock).

‡L. L. Rutledge, B. S., Asst. State 4-H Club Agt. (P. O. Box 391, Little Rock).

‡T. R. Betton, B. S., Negro Dist. Agt. (610½ West 9th, Little Rock).

Extension Administration-Continued

‡H. C. Ray, M. S., Negro Dist. Agt. (610½ West 9th, Little Rock).

‡Mrs. Fannie M. Boone, Negro Dist. Home Dem. Agt. (610½ West 9th, Little Rock).

‡Mrs. Ella P. Neely, Negro Dist. Home Dem. Agt. (610½ W) 9th, Little Rock).

‡L. L. Phillips, B. S., Negro 4-H Club Agt. (610½ West 9th, Little Rock).

Forestry-See Horticulture.

Home Economics:

*†Beulah V. Gillaspie, Ph. D., Prof. and Head of Dept.

*Eleanor O. Barnes, Ph. D., Prof. Home Econ.

t Minnie Bell, B. S., Ext. Home Mgt. Spec. (P. O. Box 391, Little Rock).

t Mrs. Alva A. Blackmon, B. S., Ext. Spec. in Family Food Supply (P. O. Box 391, Little Rock).

*Mrs. Mary M. Burton, M. S., Asst. Prof. Home Econ. *Louise Chenault, M. A., Asst. Prof. Home

Econ.

‡Mrs. Verna L. Dodd, M. S., Ext. Nutr.

(P. O. Box 391, Little Rock).

*Mrs. Margaret A. Jobe, B. S., Instr. Home

Econ.
rs. Mescal D. Johnston, M. S., Instr.

*Mrs. Mescal D. Johnston, M. S., Instr. Home Econ.

\$Clara M. Kuhnert, M. S., Ext. Home Indus. Spec. (P. O. Box 391, Little Rock).

*Vera MacNair, Ph. D., Assoc. Prof. and Assoc. Home Econ.

Sue Marshall, B. S., Ext. Clothing Spec. (P. O. Box 391, Little Rock).

*Mrs. Irene P. Miracle, B. S., Ext. Family Life Spec. (P. O. Box 391, Little Rock).

*Margaret O'Connor, M. S., Assoc. Prof. and Assoc. Home Econ.

Blanche G. Randolph, M. S., Ext. Spec. in Food Preservation (P. O. Box 391, Little Rock).

Rock).

†Helen M. Robinson, Ext. Health Ed. Spec. (P. O. Box 391, Little Rock). *Maurietta Shoemaker, R. N., Instr. Home

Econ.

*Frances L. Watts, M. S., Instr. Home Econ. *Lola L. Weaver, B. S., Instr. Home Econ.

Horticulture and Forestry:

*†V. M. Watts, Ph. D., Prof. and Head of

Dept.

E. J. Allen, M. S., Ext. Hort.

E. H. Arrington, B. S., Junior Hort. (P. O., Nashville)

‡L. H. Burton, B. S., Ext. Hort. †J. W. Fleming, M. A., Asst. Hort. *†J. K. Greig, Jr., M. S., Instr. and Junior

†H. A. Howell, B. S., M. F., Ext. For. (P. O. Box 391, Little Rock).
†A. T. McDaniel, B. S., Junior Hort. (P. O., Bald Knob).

*†||Joe McFerran, B. S., Instr. and Junior Hort. *†F. M. Meade, M. F., Assoc. Prof. and Assoc.

For. ‡R. E. Nelson, B. S., Ext. Farm For. (P. O.,

Hope).
*†J. E. Vaile, Ph. D., Assoc. Prof. and Assoc.

Hort. †H. H. Vose, B. S., Junior Hort. (P. O., Van Buren).

†C. J. Westbrook, B. S., Junior Hort. (P. O.,

Clarksville).

*†R. S. Young, M. S., Asst. Prof. and Asst.
Hort.

Plant Pathology:

*†V. H. Young, Ph. D., Prof. and Head of Dept. *†E. M. Cralley, Ph. D., Prof. Plant Path.; Plant Path.

‡R. G. Emge, Ph. D., Ext. Plant Path.

Plant Pathology—Continued

*†J. P. Fulton, Ph. D., Asst. Prof. and Asst.

Plant Path.

*N. D. Fulton, B. S., Instr. Plant Path.

†C. L. Mason, Ph. D., Asst. Prof. and Asst. *†C.

Plant Path.

*†H. R. Rosen, Ph. D., Prof. Plant Path.;
Plant Path.

Veterinary Science-See Animal Industry.

Miscellaneous:

*†Wanda C. Pringle, M. A., Libr.

Branch Stations:

Cotton Branch Expt. Sta., P. O., Mari-

anna—
J. L. Dameron, B. S., Asst. Dir. in charge.
C. A. Moosberg, Ph. D., Assoc. Agron. (Coop. U. S. D. A.).

Branch Stations-Continued

Cotton Branch Expt. Sta.—Continued C. E. Coviness, B. S., Res. Asst. R. W. Williams, B. S., Res. Asst. J. P. Wilson, B. S., Res. Asst. Fruit and Truck Branch Expt. Sta.,

J. P. Wilson, B. S., Res. Asst.
Fruit and Truck Branch Expt. Sta.,
P. O., Hope—
C. M. Bittle, M. S., Asst. Dir. in charge.
V. C. Thompson, B. S., Res. Asst.
Garland Urrey, B. S., Res. Asst.
Livestock and Forestry Branch Expt. Sta.,
P. O., Batesville—
C. E. Mabry, M. S., Asst. Dir. in charge.
E. V. Hunt, Jr., B. S., Res. Asst.
H. J. Underwood. B. S., Res. Asst.
Rice Branch Expt. Sta., P. O. Stuttgart—
J. O. Dockins, B. S., Asst. Dir. in charge.
C. R. Adair, Ph. D., Agron. (Coop.
U. S. D. A.).
J. N. Campbell, Res. Asst.
W. F. Thompson, B. S., Res. Asst.

Agricultural, Mechanical, and Normal College, Pine Bluff

*Agricultural faculty. \$Leave of absence.

*L. A. Davis, President. *S. A. Haley, M. S., Dir. of Agr.

*D. J. Albritton, M. S., Soils and Agr. Chem.

*§M. A. Baeza, M. S., Agr. Econ.

*J. M. Cheatham, M. S., Farm Shop and Agr. Engin.

*J. A. Gordon, M. S., Agr. Econ.

*M. C. George, Ph. D., Bot. and Agron.

*O. R. Holiday, M. S., An. Husb.
*J. B. Johnson, M. S., Dairy Husb.
*A. G. Kirby, M. S., Agr. Ed.
*B. F. Lever, B. S., Farm Mgr.
*S. J. Parker, Ph. D., Hort.
*I. S. Reid, M. S., Poultry Husb.

CALIFORNIA

College of Agriculture, the Agricultural Experiment Station, and the Departments of Forestry, Home Economics, and Veterinary Science of the University of California

*College faculty. †Station staff. ‡Extension staff.

*R. G. Sproul, B. S., LL. D., Litt. D., President of University (P. O., Berkeley).

*†C. B. Hutchison, M. S., LL. D., D. Agr. (hon. c.), Vice President of Univ., Dean Coll. of Agr. (P. O., Berkeley).

†P. F. Sharp, Ph. D., Dir. of Sta. (P. O., Berkeley).

‡J. E. Coke, B. S., Dir. of Agr. Ext. Service (P. O., Berkeley).

*†S. B. Freedom, Ph. D., D. Sc., Asst. Dean Coll. of Agr., Asst. Dir. of Sta. (P. O., Berkeley).

*†S. B. Freeborn, Ph. D., D. SC., Asst. Dean Coll. of Agr. (P. O., Los Angeles).

*†R. W. Hodgson, M. S., Asst. Dean Coll. of Agr. (P. O., Davis).

*†K. A. Ryerson, M. S., Asst. Dir. of Agr. Ext. Service (P. O., Berkeley).

*†L. D. Batchelor, Ph. D., Dir. of Citrus Expt. Sta. (P. O., Riverside).

*†H. R. Wellman, Ph. D., Dir. of Ginnini Foundation of Agr. Econ. (P. O., Berkeley).

*†F. S. Baker, F. E., Dean School of For. (P. O., Berkeley).

*†G. H. Hart, D. V. M., M. D., Dean School of Vet. Med. (P. O., Davis).

*J. H. Corley, B. S., Vice President—Business Affairs (P. O., Berkeley).

Biological Control:

Glological Control:
†G. L. Finney, Asst. Spec. in Expt. Sta. (Biol. Control).
*†R. L. Doutt, Ph. D., Lect. and Asst. Ent. (Biol. Control).
†J. K. Holloway, B. S., Spec. in Expt. Sta. (Biol. Control).
†C. B. Huffaker, Ph. D., Asst. Ent.
†K. M. Hughes, A. B., Asst. Spec. in Expt. Sta. (Biol. Control).
†P. B. Messenger, B. S., Asst. Spec. in Expt. Sta. (Biol. Control).
*†E. A. Steinhaus, Ph. D., Assoc. Prof. and Assoc. Insect Path.
†C. G. Thompson, Ph. D., Junior Insect Path.

Economics (Agr.):

*†H. R. Wellman, Ph. D., Head of Div, Berkeley, Davis, and Los Angeles. *†R. L. Adams, D. Sc., Prof. Farm Mgt.; Agr. Econ.; *†A. R. Benedict, Ph. D., Prof. Agr. Econ.;

Agr. Econ.

*†Guy Black, S. B., Lect. and Asst. Spec. in
Expt. Sta. (Agr. Econ.).

Economics (Agr.)—Continued

*†R. G. Bressler, Jr., Ph. D., Prof. Agr. Econ.;

†D. A. Clarke, Jr., M. S., Asst. Spec. in Expt. Sta. (Agr. Econ.).

††H. E. Erdman, Ph. D., Prof. Agr. Econ.;

*†W. D. Fisher, Ph. D., Asst. Prof. and Asst.

*†Varden Fuller, Ph. D., Lect. and Assoc. Agr. Econ.

*†Varden Fuller, Ph. D., Lect. and Assoc.

Agr. Econ.
†E. L. Haff, Jr., A. M., Asst. Spec. in Expt.

Sta. (Agr. Econ.).

*†S. S. Hoos., Ph. D., Prof. Agr. Econ.;

Agr. Econ.
†G. M. Kuznets, Ph. D., Assoc. Prof. and

Assoc. Agr. Econ.

*†I. M. Lee, Ph. D., Asst. Prof. and Asst.

Agr. Econ.
†C. O. McCorkle, M. S., Asst. Spec. in Expt.

Sta. (Agr. Econ.).

*†G. L. Mehren, Ph. D., Assoc. Prof. and

Assoc. Agr. Econ.
†N. S. Mewhinney, A. B., Asst Spec. in

Expt. Sta. (Agr. Econ.).

*†S. W. Shear, Ph. D., Assoc. Agr. Econ.

*†E. C. Voorhies, B. S., Prof. Agr. Econ.;

Agr. Econ.

Economics (Agr.) -- Continued

*†S. V. Wantrup, Ph. D., Prof. Agr. Econ.; Agr. Econ. *†David Weeks, C. E., Ph. D., Prof. Agr. Econ.; Agr. Econ.

Entomology and Parasitology:

*†E. O. Essig, M. S., Head of Div., Berkeley and Davis. *†M. W. Allen, Ph. D., Asst. Prof. and Asst. Nematologist. *†O. G. Bacon, Ph. D., Asst. Prof. and Asst.

Ent.

*†A. D. Borden, A. M., Lect. and Ent.

*†Roderick Craig, Ph. D., Assoc. Prof. and
Assoc. Insect. Physiol.

*†N. W. Frazier, Ph. D., Lect. and Asst. Ent.

*†S. B. Freeborn, Ph. D., D. Sc., Prof. Ent.

*†J. H. Freitag, Ph. D., Assoc. Prof. and
Assoc. Ent.

**D. Furmer, Ph. D. Asst. Prof. and

*†D. P. Furman, Ph. D., Asst. Prof. and Asst. Ent.

*†H. T. Gordon, Ph. D., Asst. Prof. and Asst. Insect Toxicologist.

*†W. M. Hoskins, Ph. D., Prof. Ent.; Chem.

*†D. D. Jensen, Ph. D., Asst. Prof. and Asst.

Ent. *†E. G. Linsley, Ph. D., Assoc. Prof. and Assoc. Ent. *†J. W. MacSwain, Ph. D., Instr. and Junior

Ent. ** Michelbacher, Ph. D., Assoc. Prof. and Assoc. Ent. ** W. W. Middlekauff, Ph. D., Asst. Prof. and

Asst. Ent. *†A. E. Pritchard, Ph. D., Asst. Prof. and

*†D. J. Raski, Ph. D., Instr. and Asst. Ent. †G. L. Smith, M. S., Asst. Ent. *†R. F. Smith, Ph. D., Asst. Prof. and Asst.

*†M. A. Stewart, Ph. D., Prof. Parasit.; Ent. *†E. S. Sylvester, Ph. D., Asst Prof. and

Asst. Ent. *†R. L. Usinger, Ph. D., Assoc. Prof. and Assoc. Ent.

Extension Service (Agr.):

ADMINISTRATIVE :

tJ. E. Coke, B. S., Dir. tC. W. Rubel, B. S., Asst. Dir. tJ. E. Tippett, B. S., Asst. to Dir. tJ. J. McElroy, B. S., State Leader, Pro-

grams. ‡Claribel Nye, M. A., State Leader, Home Econ

‡Lucy Allen, B. A., Asst. State Leader. ‡A. D. Aulenbacher, B. S., Asst. tA. D. Leader. State

†P. C. Barker, B. S., Asst. State Leader. †D. T. Batchelder, B. S., State Leader. †Katharine E. Bennitt, M. A., Asst. State

Leader. ‡H. M. Butterfield, M. S., Public Service. ‡C. F. Elwood, B. S., Asst. Prof. Public

‡C. F. Service.

Service.

Irene Fagin, M. A., Asst. State Leader.

J. P. Fairbank, B. S., State Leader.

W. G. Marders, B. S., Asst. State Leader.

T. C. Mayhew, B. S., State Leader.

W. R. Ralston, B. S., State Leader.

A. G. Salter, B. S., State Leader.

Andla G. Sansom, M. S., Asst. State

Leader. ‡F. M. Spurrier, B. S., Spec. in Agr. Ext. ‡W. G. Waterhouse, B. S., Spec. in Agr. Ext.

SUBJECT MATTER SPECIALISTS:

CBJECT MATTER SPECIALISTS:

‡G. B. Alcorn, M. S., Mttg. Spec.

‡L. N. Brown, B. S., Soil Conserv. Spec.

‡B. B. Burlingame, M. S., Farm. Mat. Spec.

‡H. M. Dail, M. A., Information Spec.

‡Jessie L. Decker, Home Furnishing Spec.

‡Ethelwyn M. Dodson, B. S., Clothing Spec.

‡Dorothy E. Duncan, B. S., 4-H Club Spec.

‡F. H. Ernst, B. S., Ilus. Materials Spec.

‡Hilda Faust, M. A., Nutr. Spec.

‡G. E. Gordon, B. S., Dairy Spec.

Extension Service (Agr.) - Continued

SUBJECT MATTER SPECIALISTS-

‡R. F. Grah, M. S., For. Spec. ‡Ruby D. Harris, Ed. D., Child Guidance

Spec.

‡H. F. Madsen, Ph. D., Ent. Spec.

‡W. E. Martin, Ph. D., Soils Spec.

‡Alice McKinney, B. S., Home Furnishing

Spec.

Spec.

Woodbridge Metcalf, M. S., For. Spec.

W. E. Newlon, B. S., Poultry Spec.

Julia Pond, M. A., Home Mgt. Spec.

A. D. Reed, M. S., Farm Mgt. Spec.

Frances E. Reis, M. S., Clothing Spec.

R. C. Rock, M. S., Agr. Econ. Spec.

W. R. Schoonover, M. S., Soils Spec.

C. E. Scott, M. A., Plant Path. Spec.

Arthur Shultis, M. S., Farm Mgt. Spec.

A. M. Smith. Information Spec.

Marion M. Sniffen, M. A., Nutr. Spec.

H. T. Strong, B. S., An. Husb. Spec.

Wallace Sullivan, M. S., Farm Mgt. Spec.

Food Technology:

*†E. M. Mrak, Ph. D., Head of Div. *†W. V. Cruess, Ph. D., Prof. Food Technol.;

Biochem.*†M. A. Joslyn, Ph. D., Prof. Food Technol.;

Biochem.

†J. H. Kilbuck, M. S., Asst. Spec. in Expt. Sta. (Food Technol.).

*†Gordon Mackinney, Ph. D., Prof. Food

*†Gordon Mackinney, Ph. D., Prof. Food Technol.; Biochem. *†G. L. Marsh, M. S., Assoc. Prof. and Assoc. Food Technol. *†H. J. Phaff, Ph. D., Asst. Prof. Food Tech-nol.; Asst. Microbiol. *†R. H. Vaughn, Ph. D., Assoc. Prof. Food Technol.; Assoc. Bact.

Forestry:

*†F. S. Baker, F. E., Head of Dept. *†A. B. Anderson, Ph. D., Lect. in For. and

*†R. K. Arnold, Ph. D., Asst. Prof. and Asst. For.

*†R. M. Barr, M. F., Ph. D., Prof. and Assoc.

*†P. M. Barr, M. F., Ph. D., Prof. and Assoc. For.

††H. H. Biswell, Ph. D., Assoc. Prof. For.;

*†R. A. Cockrell, Ph. D., Prof. and Assoc. For.

†R. N. Colwell, Ph. D., Asst. Prof. For.;

Asst. Silviculturist.

*Emanuel Fritz, M. E., M. F., Prof. For.;

†Joseph Kittredge, M. F., Ph. D., Prof. For.;

*†M. E. Krueger, M. S., Prof. and Assoc. For. †A. W. Sampson, Ph. D., Prof. For.; Plant Ecol.

†N. A. Smith, Jr., M. S., Junior Spec. in Expt. Sta. (For.).

†E. C. Stone, Ph. D., Instr. For.; Junior Siviculturist.

†H. J. Vaux, Ph. D., Assoc. Prof. and Assoc.

*†J. A. Zivnuska, Ph. D., Asst. Prof. and Asst. For.

Genetics (Agr.):

*†R. E. Clausen, Ph. D., Head of Div. *†S. W. Brown, Ph. D., Asst. Prof. and Asst. Geneticist. *†D. R. Cameron, Ph. D., Lect. and Asst.

Geneticist. †W. E. Castle, Ph. D., Res. Assoc. in Gene-

*†E. R. Dempster, Ph. D., Assoc. Prof. and Assoc. Geneticist. *†J. A. Jenkins, Ph. D., Assoc. Prof. and Assoc. Geneticist.

Home Economics:

*†Mrs. Agnes F. Morgan, Ph. D., Head of

*Lotte Arnich, B. S., Lect. in Home Econ. *Jessie V. Coles, Ph. D., Prof. Home Econ.; Home Econ.

Home Economics-Continued

*†Mrs. Bessie B. Cook, Ph. D., Asst. Prof. Home Econ.; Asst. Biochem. *†Helen L. Gillum, Ph. D., Assoc. Prof. Home Econ.; Assoc. Biochem. *Mrs. Margaret B. Hanson, M. S. Lect. in Home Econ. *M Vivining Long. Ph. D. Asst. Park W.

*M. Virginia Jones, Ph. D., Asst. Prof. Tex-

tiles. *Barbara I. Keane, M. S., Lect. in Home

*†Barbara M. Kennedy, Ph. D., Asst. Prof. Home Econ.; Asst. Biochem. *Catharine Landreth, Ph. D., Assoc. Prof. *Agnes C. McClelland, M. A., Lect. in Home

Econ.*†Ruth Okey, Ph. D., Prof. Home Econ.; Bio-

chem.
*Eve W. Straight, B. S., Lect. in Institution

Landscape Architecture:

*H. L. Vaughan, B. S., Head of Div. *R. B. Litton, Jr., M. L. A., Instr. Landsc. Arch.

*H. W. Shepherd, B. S., Prof. Landsc. Arch.

Nutrition:

†H. M. Evans, B. S., M. D., Res. Assoc. in Expt. Biol.

Plant Biochemistry:

*†H. A. Barker, Ph. D., Head of Div.

*†C. C. Delwiche, Ph. D., Instr. Plant Biochem. and Asst. Biochem.

*†W. Z. Hassid, Ph. D., Prof. Plant Biochem.: Chem.

chem.; Chem.

*†P. K. Stumpf, Ph. D., Asst. Prof. Plant
Biochem.; Asst. Biochem.

Plant Nutrition:

*†P. R. Stout, Ph. D., Prof. Plant Nutr. and Head of Div.; Chem. *†D. I. Arnon, Ph. D., Prof. Plant Nutr.; Plant Physiol.

Plant Physiol.

*†J. P. Bennett, Ph. D., Prof. Plant Physiol.;
Plant Physiol.

†T. C. Broyer, B. S., Assoc. Plant Physiol.

†Louis Jacobson, Ph. D., Asst. Prof. Plant Nutr.; Asst. Plant Biochem.

†C. M. Johnson, Ph. D., Asst. Biochem.

†J. C. Martin, B. S., Assoc. Chem.

†Albert Ulrich, Ph. D., Assoc. Plant Physiol. (Plant Nutr.),

†F. R. Whatley, Ph. D., Asst. Spec. in Expt. Sta. (Plant Nutr.)

Plant Pathology:

*†M. W. Gardner, Ph. D., Head of Div.,
Berkeley and Davis.

*†P. A. Ark., Ph. D., Assoc. Prof. and Assoc.
Plant Path.
†A. H. Gold, M. A., Asst. Spec. in Expt. Sta.
(Plant Path.).

*†H. N. Hansen, Ph. D., Prof. Plant Path.;
Plant Path.

*†H. N. Hansen, Ph. D., Proj. Funt Futh., Plant Path.
†R. J. Kutsky, M. A., Asst. Spec. in Expt. Sta. (Plant Path.).

*†N. A. MacLean, Ph. D., Instr. and Junior Plant Path.

†T. E. Rawlins, Ph. D., Prof. Plant Path.; Plant Path.

Plant Path.
†B. A. Rudolph, Ph. D., Assoc. Plant Path.
(P. O., San Jose).
*†W. C. Snyder, Plant Path.;
Plant Path. D., Prof. Plant Path.;
†W. N. Takahashi, Ph. D., Asst. Prof. and
Asst. Plant Path.
*†H. E. Thomas, Ph. D., Prof. Plant Path.;
Plant Path.

*†H. E. Thomas, Ph. D., Froj. Frant Fain., Plant Path.
†C. M. Tompkins, Ph. D., Assoc. Plant Path.
†Stephen Wilhelm, Ph. D., Asst. Prof. and Asst. Plant Path.

*†C. E. Yarwood, Ph. D., Prof. Plant Path; Plant Path.

Poultry Husbandry:

*†L. W. Taylor, Ph. D., Head of Div., Berkeley and Davis.
J. Bouthilet, Ph. D., Lect. and Asst.

ley and Davis.

*†R. J. Bouthilet, Ph. D., Lect. and Asst. Poultry Husb.

*†C. R. Grau. Ph. D., Asst. Prof. and Asst. Poultry Husb.

*†Samuel Lepkovsky, Ph. D., Prof. Poultry Husb.; Poultry Husb.

*†I. M. Lerner, Ph. D., Assoc. Prof. and Assoc. Poultry Husb.

†D. W. Peterson, Ph. D., Asst. Spec. in Expt. Sta. (Poultry).

Soils:

Agronomy:

*†G. B. Bodman, Ph. D., Head of Div., Berke-

*†G. B. Bodman, Ph. D., Head of Div., Berkeley and Davis.
†R. J. Arkley, A. B., Asst. Spec. in Expt. Sta. (Soils).
†Isaac Barshad, Ph. D., Asst. Soil Chem. †E. L. Begg, B. S., Junior Spec. in Expt. Sta. (Soils).
*†R. L. Crocker, D. Sc., Assoc. Prof. and Assoc. Soil Morphol.
*†P. R. Day, Ph. D., Asst. Prof. Soil Phys.; Asst. Soil Physicist.
†F. F. Harradine, M. S., Asst. Soil Technol. †G. L. Huntington, B. S., Junior Spec. in Expt. Sta. (Soils).
*†Hans Jenny, Sc. D., Prof. Soil Chem. and Morphol.; Soil Chem. and Morphol.; Soil Chem. and Morphol.; Soil Chem. Soil Chem. Soil Chem. Soil Chem.

*†Roy Overstreet, Fil. D., Froj. Som Chem., Soil Chem. †Esther P. Perry, Ph. D., Asst. Spec. in Expt. Sta. (Soils). *†R. E. Storie, B. S., Lect. and Soil Technol. †L. K. Stromberg, B. S., Asst. Spec. in Expt.

† I. R. Stromoerg, D. S., How. Sta. (Soils).
†James Vlamis, Ph. D., Asst. Soil Chem.
†W. W. Weir, Drainage Engin.
†D. E. Williams, Ph. D., Asst. Soil Chem.

Davis

*†F. N. Briggs, Ph. D., Head of Div. *†R. W. Allard, Ph. D., Asst. Prof. and Asst. †W. E. Biehler, B. S., Junior Spec. in Expt.

TW. E. Bienier, D. S., Samuel S. Sta. (Agron.).

*JJ. P. Conrad, Ph. D., Prof. Agron.; Agron.

†R. L. Forbes, B. S., Asst. Spec. in Expt. Sta. (Agron.).

†G. J. Harrison, B. L., Assoc. in Expt. Sta. (Agron., Coop. U. S. D. A.: P. O., Shatter).

Shafter). †L. G. Jones, B. S., Assoc. Spec. in Expt. Sta.

*†P. F. Knowles, Ph. D., Asst. Prof. and Asst. Agron.

*†H. M. Laude, Ph. D., Asst. Prof. and Asst. Agron

*†R. M. Love, Ph. D., Assoc. Prof. and Assoc. Agron.

*†B. A. Madson, B. S., Prof. Agron.; Agron., Dir. Field Stations.

*†D. S. Mikkelsen, Ph. D., Instr. and Junior Agron. in Expt. Sta.

†A. H. Murphy, B. S., Asst. Spec. in Expt. Sta. (Agron.).
†F. G. Parsons, B. S., Spec. in Expt. Sta.

(Agron).

*†M. L. Peterson, Ph. D., Asst. Prof. and

*†C. W. Schaller, Ph. D., Asst. Prof and

Asst. Agron.

G. Smeltzer, M. S., Lect. and Asst. Spec. in Expt. Sta. (Agron.).

L. Smith, Ph. D., Assoc. Prof. and

Assoc. Agron.

*†E. H. Stanford, Ph. D., Asst. Prof. and Asst. Agron.

†D. C. Sumner, B. S., Asst. Spec. in Expt. Sta. (Agron.).

Agronomy—Continued

†C. A. Suneson, M. S., Assoc. in Expt. Sta. (Agron.: Coop. U. S. D. A.).

*†F. P. Zscheile, Jr., Ph. D., Assoc. Prof. Agron.; Assoc. Biochem.

Animal Husbandry:

*†E. H. Hughes, Ph. D., Head of Div.

*†F. D. Carroll, Ph. D., Instr. and Junior
An. Husb.

*†H. H. Cole, Ph. D., Prof. An. Husb.; An.
Husb.

*†P. T. Cupps, Ph. D., Asst. Prof. and Asst.
An. Husb.

*†Harold Goss, Ph. D., Prof. An. Husb; An.
Husb.

*†P. W. Gregory, D. Sc., Prof. An. Husb.;
An. Husb

*†H. R. Guilbert, M. S., Prof. An. Husb; An.

Husb. +†Hubert Heitman, Jr., Ph. D., Asst. Prof. and Asst. An. Husb.

†C. E. Howell, M. S., Assoc. Prof. and An. Husb.

†E. A. Johnson, Jr., B. S., Asst. Spec. in Expt. Sta. (An. Husb.). *†Max. Kleiber, D. Sc., Prof. An. Husb.; An.

Husb.

*†G. P. Lofgreen, Ph. D., Asst. Prof. and Asst. An. Husb. *†S. W. Mead, M. S., Prof. An. Husb.; An. Husb.

†D. F. Rahlman, Junior Spec. in Expt. Sta.

(An. Husb.). *†W. M. Regan, A. M., Prof. An. Husb.; An.

*†W. M. Regan, A. M., Proj. An. Huso.; An. Husb.

*†W. C. Rollins, Ph. D., Asst. Prof. and Asst. An. Husb.

K. A. Wagnon, B. S., Assoc. Spec. in Expt. Sta. (An. Husb.: P. O., O'Neals).

*†W. C. Weir, Ph. D., Asst. Prof. and Asst. An. Husb.

†J. F. Wilson, M. A., Prof. An. Husb.; An. Husb.

Husb.

Bacteriology:

*†C. S. Mudge, Ph. D., Head of Div. *†D. M. Reynolds, Ph. D., Asst. Prof. and Asst. Bact. *†M. P. Starr, Ph. D., Asst. Prof. and Asst. Bact.

Botany:

*†W. W. Robbins, Ph. D., Head of Div. *†A. S. Crafts, Ph. D., Prof. Bot.; Bot. *†H. B. Currier, Ph. D., Asst. Prof. and Asst. Rot.

*†Katherine Esau, Ph. D., Prof. Bot.; Bot. *†E. M. Gifford, Jr., Ph. D., Instr. and Junior Bot.

†O. A. Leonard, Ph. D., Asst. Bot. *†C. R. Stocking, Ph. D., Asst. Prof. and Asst. Bot. *†J. M. Tucker, Ph. D., Instr. and Junior Bot. *†T. E. Weier, Ph. D., Prof. Bot.; Bot.

Chemistry:

*†H. A. Young, Ph. D., Head of Div. *T. L. Allen, Ph. D., Lect. in Chem. *†L. J. Andrews, Ph. D., Asst. Prof. and Asst. Chem.

*†R. K. Brinton, Ph. D., Asst. Prof. and Asst.

Chem *†R. M. Keefer, Ph. D., Assoc. Prof. and

Assoc. Chem *†R. E. Kepner, Ph. D., Asst. Prof. and Asst.

Chem

*†E. P. Painter, Ph. D., Assoc. Prof. Chem.; Assoc. Biochem. *†H. G. Reiber, Ph. D., Assoc. Prof. and

*†D. H. Volman, Ph. D., Assoc. Prof. and Assoc. Chem.

Dairy Industry:

*†E. L. Jack, Ph. D., Head of Div. *†C. L. Roadhouse, D. V. M., Prof. Dairy Technol.; Dairy Technol.

Dairy Industry-Continued

†F. H. Abbott, B. S., Assoc. Spec. in Dairy Indus

*†E. B. Collins, Ph. D., Instr. and Junior Dairy Bact.

*†W. L. Dunkley, Ph. D., Asst. Prof. and Asst. Dairy Technol.

*†John Erway, Ph. D., Asst. Prof. and Asst.

*B. E. Hubbell, Jr., B. S., Assoc. in Dairy

*B. E. Hudden, Jr., D. S.,
Indus.

*†T. A. Nickerson, Ph. D., Instr. Dairy Indus.
and Junior Dairy Technol.

*†C. A. Phillips, M. S., Lect. and Assoc. Spec.
in Expt. Sta. (Dairy Indus.).

*†N. P. Tarassuk, Ph. D., Assoc. Prof. Dairy
Indus.; Assoc. Dairy Chem.

Economics (Agr.):

*†Arnold Brekke, B. S., Lect. and Asst. Spec. in Expt. Sta. (Agr. Econ.). *†Jerry Foytik, Ph. D., Asst. Prof. and Asst. Agr. Econ. *†T. R. Hedges, Ph. D., Assoc. Prof. and Assoc. Agr. Econ. *R. T. Robinson, B. S., Lect. in Agr. Econ. *†J. M. Tinley, Ph. D., Prof. Agr. Econ.; Agr. Econ.

Education (Agr.):

*C. W. Bursch, II, A. B., Lect. in Ed.

*F. L. Griffin, M. S., Assoc. Prof. Agr. Ed.
and Supvr., Two-Year Curricula.

*E. M. Juergenson, M. Ed., Lect. in Ed.

*S. S. Sutherland, M. S., Asst. Prof. Ed.
and Supvr., Teacher-Training in Agr.

Engineering (Agr.):

*†Roy Bainer, M. S., Head of Div. *†N. B. Akesson, M. S., Lect. and Asst. Agr. *†N. B. AKESON, M. S., Dett. and Asst. Agr. Engin.
†C. E. Barbee, Assoc. Spec. in Expt. Sta. (Agr. Engin.).
*†H. L. Belton, Assoc. in Agr. Engin. and Assoc. Spec. in Expt. Sta.
†L. M. K. Boelter, M. S., Agr. Engin. (P. O.,

†L. M. K. Boelter, M. S., Ayr. Engin. (F. U., Los Angeles.).

*†F. A. Brooks, M. E., Sc. D., Prof. Agr. Engin.; Agr. Engin.

†G. L. Gallaher, M. S., Instr. and Junior Agr. Engin.

†J. T. Gunn, B. S., Junior Spec. in Expt. Sta. (Agr. Engin.).

*†S. M. Henderson, M. S., Lect. and Asst. Agr.

Engin. *†R. A. Kepner, B. S., Asst. Prof. and Asst.

*†H. D. Lewis, B. S., Assoc. in Agr. Engin. and Assoc. Spec. in Expt. Sta. *†Coby Lorenzen, M. S., Lect. and Assoc.

*†Coby Lorenzen, M. S., Lect. and Assoc. Agr. Engin.

*†L. W. Neubauer, Ph. D., Assoc. Prof. and Assoc. Agr. Engin.

*†R. L. Perry, B. S., M. E., Prof. Agr. Engin.; Agr Engin.

*†J. B. Powers, B. S., Agr. Engin.

*†J. R. Tavernetti, M. S., Lect. and Agr. Engin.

*†H. B. Walker, C. E., Prof. Agr. Engin.; Agr. Engin.

Entomology and Parasitology:

*†S. F. Bailey, Ph. D., Prof. Ent.; Ent. *†R. M. Bohart, Ph. D., Asst. Prof. and Asst.

Assoc. Ent.

*†E. M. Stafford, Ph. D., Lect. and Asst. Ent.

*†F. M. Stummers, Ph. D., Lect. and Asst. Ent.

†G. H. Vansell, M. S., Assoc. in Expt. Sta.

(Ent.; Coop. U. S. D. A.).

Extension Service (Agr.):

tReuben Albaugh, B. S., An. Husb. Spec. tL. J. Booher, C. E., Irrig. Spec. tL. L. Davis, M. S., Agron. Spec. tW. A. Harvey, M. S., Weed Control Spec. tMarvin Hoover, B. S., Cotton Spec. (P. O., Shatter) Shafter). ‡K. G. McKay, M. S., D. V. M., Vet. Sci.

†K. G. McKay, M. S., D. V. M., Vel. Soc. Spec.

‡P. A. Minges, Ph. D., Truck Crop Spec.

‡V. P. Osterli, B. S., Agron Spec.

‡R. R. Parks, M. A., Agr. Engin. Spec.

‡C. L. Pelissier, B. S., Dairy Spec.

‡H. B. Richardson, M. S., Vit. Spec.

‡A. D. Rizzi, B. S., Deciduous Fruits Spec.

‡A. S. Rosenwald, M. S., D. V. M., Poultry Path. Spec.

‡W. F. Weeks, B. S., Agron. Spec.

Farm Practice:

†R. W. Munyon, B. S., Assoc. Agr.

Field Station Administration:

tela Station Administration:

*†B. A. Madson, Dir.
†S. B. Boswell, B. S., Asst. Spec. in Expt.
Sta. (P. O., El Centro).

†R. L. Forsyth, B. S., Asst. Spec. in Expt.
Sta. (P. O., Lancaster).
†B. J. Hoyle, M. S., Asst. Spec. in Expt.
Sta. (P. O., Tulelake).
†N. R. Ittner, B. S., Assoc. Spec. in Expt.
Sta. (P. O., El Centro).
†E. P. Speck, B. S., Asst. Spec. in Expt. Sta.
(P. O., El Centro).

Genetics:

*†G. L. Stebbins, Jr., Ph. D., Prof. and Geneticist.

*†M. M. Green, Ph. D., Asst. Prof. and Asst.

Geneticist.

Home Economics:

*Ruby L. Dryden, B. S., Assoc. in Home

Econ. *Doris F. Heineman, B. A. E., Lect. in Home Econ.

*Mildred S. Jentsch, M. S., Assoc. in Home Econ

*†Jean Warren, Ph. D., Asst. Prof. and Asst. Home Econ.

Irrigation:

*†F. J. Veihmeyer, C. E., Ph. D., Head of Div.
*†R. H. Burgy, M. S., Instr. Irrig. and Junior
Irrig. Engin.

†L. D. Doneen, Ph. D., Lect. and Assoc.
Irrig. Agron.

†R. M. Hagan, Ph. D., Asst. Prof. and Asst.
Irrig. Technol.

*†D. W. Henderson, B. S., Instr. Irrig. and
Junior Irrig. P. S. M. E. Assoc. Prof.

†C. N. Johnston, B. S., M. E., Assoc. Prof. Irrig.; Assoc. Irrig. Engin. †J. N. Luthin, Ph. D., Instr. and Junior

*†J. C. Marr, A. E., Lect. and Assoc. Spec. in Expt. Sta. (Irrig.).

*†V. H. Scott, M. S., Asst. Prof. Irrig. and Asst. Irrig. Engin.

Landscape Gardening and Floriculture:

*†R. B. Deering, Ph. D., Instr. Landsc. Gard.; Junior Hort.

Mathematics and Physics:

*†E. B. Roessler, Ph. D., Head of Div. *†G. A. Baker, Ph. D., Assoc. Prof. Math. and Assoc. Stat. *†C. M. Fulton, Ph. D., Asst. Prof. and Asst.

Math

*†M. E. Gardner, Ph. D., Assoc. Prof. Phys. and Assoc. Physicist.

*†C. G. Patten, Ph. D., Assoc. Prof. Phys. and Assoc. Physicist.

*†L. L. Skoili, M. A., Instr. Phys.; Junior Physicist.

Plant Pathology:

*†W. H. English, Ph. D., Assoc. Prof. and Assoc. Plant Path. *†R. G. Grogan, Ph. D., Instr. and Asst.

*†R. G. Grogan, Fh. D., Anov. and Assoc. Plant Path.

*†W. B. Hewitt, Ph. D., Assoc. Prof. and Assoc. Plant Path.

*†B. R. Houston, Ph. D., Assoc. Prof. and Assoc. Plant Path.

*†J. B. Kendrick, Ph. D., Prof. Plant Path.;

†J. B. Kendrick, Ph. D., Prof. Plant Path.; Plant Path. plant Path. †L. D. Leach, Ph. D., Prof. Plant Path.; †George Nyland, Ph. D., Asst. Prof. and Asst. Plant Path. †J. W. Oswald, Ph. D., Asst. Prof. and Asst. Plant Path. ††J. W. D., Prof. Plant Path.; Plant Path.; Plant Path.;

Pomology:

*†W. P. Tufts, Ph. D., Head of Div. *†F. W. Allen, M. S., Prof. Pomol.; Pomol. *†R. E. Baker, Ph. D., Asst. Prof. and Assoc. Pomol.

*†R. M. Brooks, Ph. D., Assoc. Prof. and Assoc. Pomol.

*†D. S. Brown, Ph. D., Asst. Prof. and Asst. Pomol.

†J. G. Brown, M. S., Assoc. Spec. in Expt. Sta. (Pomol.).

*†L. L. Claypool, Ph. D., Assoc. Prof. and Assoc. Pomol.

*†J. C. Crane, Ph. D., Asst. Prof. and Asst.

Pomol.

*†L. D. Davis, Ph. D., Prof. Pomol.; Pomol. †A. E. Gilmore, M. S., Assoc. Spec. in Expt. Sta. (Pomol.).

*†W. H. Griggs, Ph. D., Asst. Prof. and Asst. Pomol.

†C. J. Hansen, M. S., Asst. Prof. and Assoc.

*†C. J. Hansen, M. S., Instr. and Junior Pomol.

*†R. W. Harris, M. S., Instr. and Junior Pomol.

*†H. T. Hartmann, Ph. D., Asst. Prof. and Asst. Pomol.

*†A. H. Hendrickson, Ph. D., Lect. and

*†A. H. Hendrickson, Ph. D., Lect. and Pomol. *†C. O. Hesse, Ph. D., Asst. Prof. and Assoc.

Pomol.

*†Omund Lilleland, Ph. D., Lect. and Pomol. *†E. L. Proebsting, Ph. D., Prof. Pomol.;

*†E. F. Serr, Jr., B. S., Lect. and Assoc. Pomol.
†H. M. Vines, M. S., Junior Spec. in Expt. Poultry Husbandry:

*†G. F. Stewart, Ph. D., Prof. and Chair. of

*†V. S. Asmundson, Ph. D., Prof. Poultry Husb.; Poultry Husb. *†F. H. Kratzer, Ph. D., Assoc. Prof. and

*†F. H. Kratzer, Ph. D., Assoc. Prof. and Assoc. Poultry Husb. †;F. W. Lorenz, Ph. D., Assoc. Prof. and Assoc. Poultry Husb. †;A. H. Smith, Ph. D., Lect. and Junior Poultry Husb. *†W. O. Wilson, Ph. D., Asst. Prof. and Asst. Poultry Husb.

Range Management Investigations:

†J. L. Myler, M. S., Assoc. Spec. in Expt. Sta. (Range Mgt.).
†J. E. Street, B. S. F., Asst. Spec. in Expt. Sta. (Range Mgt.).

Soils:

*†A. L. Brown, Ph. D., Lect. Soils; Asst.

*†L. E. Davis, Ph. D., Assoc. Prof. and Assoc. Soil Chem. †V. V. Rendig, Ph. D., Junior Soil Chem.

Truck Crops:

*†J. E. Knott, Ph. D., D. Sc., Head of Div. †C. G. Baughn, M. S., Junior Spec. in Expt. Sta. (Truck Crops).

Truck Crops-Continued

†J. C. Bishop, M. S., Asst. Spec. in Expt. Sta. (Truck Crops).

†G. N. Davis, Ph. D., Assoc. Prof. Truck Crops; Assoc. Oler.

†G. C. Hanna, B. S., Lect. in Truck Crops;

*†G. C. Hanna, B. S., Leet. in Truck Orops;
Assoc. Oler.

†J. F. Harrington, Ph. D., Asst. Prof. Truck
Crops; Asst. Oler.

†J. W. Kever, M. A., Junior Spec. in Expt.
Sta. (Truck Crops).

†O. A. Lorenz, Ph. D., Assoc. Prof. Truck
Crops; Assoc. Oler.

†J. H. MacGillivray, Ph. D., Prof. Truck
Crops: Oler.

**TO. A. Lorenz, Ph. D., Assoc. Voy.
Corps; Assoc. Oter.

*†J. H. MacGillivray, Ph. D., Prof. Truck
Orops; Oter.

*†L. K. Mann, Ph. D., Asst. Prof. Truck
Crops; Asst. Oler.

*†L. Morris, Ph. D., Asst. Prof. Truck
Crops; Asst. Plant Physiol.

*†H. K. Pratt, Ph. D., Asst. Prof. Truck
Crops; Asst. Plant Physiol.

*†C. M. Rick, Ph. D., Assoc. Prof. Truck
Crops; Asst. Plant Physiol.

*†C. M. Rick, Ph. D., Assoc. Prof. Truck
Crops; Assoc. Geneticist.

*†P. G. Smith, Ph. D., Asst. Prof. Truck
Crops; Asst. Oler.

*†A. R. Spurr, Ph. D., Instr. Truck Crops;
Junior Oler.

*†J. E. Welch, Ph. D., Lect. in and Asst. Oler.

*†M. Yamaguchi, Ph. D., Instr. Truck Crops
and Junior Morphol.

†F. W. Zink, Jr., M. S., Asst. Spec. in Expt.
Sta.
(Truck Crops).

Veterinary Science:

Veterinary Science:

*†G. H. Hart, D. V. M., M. D., Head of Dept.

*†R. A. Bankowski, D. V. M., Ph. D., Asst.
Prof.; Asst. Vet.

*†J. R. Beach, D. V. M., Prof. Vet. Sci.; Vet.

*†H. S. Cameron, D. V. M., Ph. D., Prof. Vet.
Sci. Vet.

*†H. S. Cameron,
Sct.; Vet.

*†J. F. Christensen, D. V. M., Ph. D., Assoc.
Prof.; Assoc. Vet.

*†D. R. Cordy, D. V. M., Ph. D., Asst. Prof.;
Asst. Path.
Depoils Ph. D., Asst. Prof. and

*†D. R. Cordy, D. V. M., Ph. D., Asst. Prof.;
Asst. Path.

*†J. R. Douglas, Ph. D., Asst. Prof. and
Asst. Parasit.

†J. B. Enright, Ph. D., Lect. and Spec. in
Expt. Sta. (Vet. Sci.).

*†T. J. Hage, D. V. M., Asst. Prof. Vet.
Med.; Asst. Vet.

*†L. W. Holm, Ph. D., Asst. Prof. Vet. Med.;
Asst. Pharmacol.

*†J. A. Howarth, D. V. M., Asst. Prof. Vet.
Med.; Asst. Vet.

*†D. E. Jasper, D. V. M., Ph. D., Assoc. Prof.
Vet. Med.; Assoc. Vet.

*†L. M. Julian, D. V. M., Lect. and Asst.
Spec. in Expt. Sta. (Vet. Sci.).

†E. W. Kay, Jr., D. V. M., Junior Spec. in
Expt. Sta. (Vet. Sci.).

W. J. Mathey, Jr., V. M. D., Asst. Spec. in
Expt. Sta.

†W. J. Mathey, Jr., V. M. D., Asst. Spec. vn
Expt. Std.

*†D. G. McKercher, Ph. D., Asst. Prof. Vet.
Med.: Asst. Vet.

*†S. A. Peoples, M. D., Prof. Comp. Pharmacol.; Pharmacol.

*†O. W. Schalm, D. V. M., Ph. D., Prof. Vet.
Sci.; Vet.

*†O. H. Siegmund, D. V. M., Lect. and Junior Vet.

*†C. Structure, Ph. D. Asst. Prof. and Asst.

*†C. Stormont, Ph. D., Asst. Prof. and Asst.

Serologist.
†J. Traum, D. V. M., Prof. Vet. Sci.; Vet.
†J. D. Wheat, D. V. M., Asst. Prof. and

†J. B. Wheat, D. V. M., Asst. 1707. and Asst. Vet.
†J. H. Woolsey, D. V. M., Asst. Spec. in Expt. Sta. (Vet. Sci.).
†D. V. Zander, D. V. M., Asst. Spec. in Expt. Sta. (Vet. Sci.).

Viticulture:

*†A. J. Winkler, Ph. D., Head of Div.

*†M. A. Amerine, Ph. D., Assoc. Prof. and
Assoc. Enologist.

†H. W. Berg, M. S., Assoc. Spec. in Expt.
Sta. (Vit.).

Viticulture---Continued

*†J. G. B. Castor, Ph. D., Asst. Prof. and Asst. Enologist.

*†J. F. Guymon, Ph. D., Asst. Prof. and Asst.

Enologist.

†L. A. Lider, B. S., Junior Spec. in Expt. Sta. (Vit.).

†K. E. Nelson, B. S., Junior Vit.

†H. P. Olmo, Ph. D., Assoc. Prof. and

*†A. D. Webb, B. S., Ph. D., Assoc. Prof. and Assoc. Vit.

†A. D. Weaver, Ph. D., Asst. Vit.

†A. D. Webb, B. S., Ph. D., Asst. Prof. Enology; Asst. Chem.

†W. O. Williams, Ph. D., Lect. in and Asst. Vit.

Zoology:

*†T. I. Storer, Ph. D., Head of Div. †W. E. Howard, Ph. D., Lect. and Asst. Zool.

†E. W. Jameson, Jr., Ph. D., Asst. Zool. *†M. A. Miller, Ph. D., Assoc. Prof. and Assoc. Zool. *†L. E. Rosenberg, Ph. D., Assoc. Prof. and

Assoc. Zool.

Los Angeles 24

Botany:

*†K. C. Hamner, Ph. D., Head of Div. *†Flora M. Scott, Ph. D., Prof. Bot.; Plant

*†F. T. Addicott, Ph. D., Assoc. Prof. Bot.;
Assoc. Plant Physiol.

*†C. C. Epling, Ph. D., Prof. Bot.; Plant
Systematist.

*A. W. Haupt, Ph. D., Prof. Bot.

*F. H. Lewis, Ph. D., Asst. Prof. Systematics, and Gen. Bot.

*B. O. Phinney, Jr., Ph. D., Asst. Prof. Bot.

*Orda A. Plunkett, Ph. D., Assoc. Prof. Bot.

*S. G. Wilman, Ph. D., Assoc. Prof. Bot.

Economics (Agr.):

*†K. D. Naden, Ph. D., Asst. Prof. and Asst.

†R. D. Nadell, Fl. D., Assi. 170], and Assi. Agr. Econ.
†R. J. Smith, Ph. D., Assoc. Prof. and Assoc. Agr. Econ.
†C. G. Wyckoff, B. S., Junior Spec. in Expt. Sta. (Agr. Econ.). *†R.

Entomology:

*†J. N. Belkin, Ph. D., Asst. Prof. and Asst.

Ent. *†L. R. Brown, Ph. D., Instr. and Junior Ent. *†Walter Ebeling, Ph. D., Assoc. Prof. and

Ent. *†R. N. Jefferson, Ph. D., Asst. Prof. and Asst. Ent.

Floriculture and Ornamental Horticulture:

*†V. T. Stoutenyer, Ph. D., Head of Div. *†D. O. Crummett, Ph. D., Lect. and Asst. Spec. in Expt. Sta. (Flor. and Orna-mental Hort.). *†B. L. Johnson, Ph. D., Assoc. Prof. and

Assoc. Geneticist.

Irrigation and Soils:

*†M. R. Huberty, Engr., Head of Div.

*†David Appleman, Ph. D., Assoc. Prof. Plant
Nutr.; Assoc. Biochem.

*†A. F. Pillsbury, Engr., Assoc. Prof. Irrig.;
Assoc. Irrig. Engin.

Plant Pathology:

*†K. F. Baker, Ph. D., Prof. Plant Path.;
Plant Path.

*†P. A. Miller, M. S., Prof. Plant Path.;
Plant Path.

*†J. G. Bald, Ph. D., Assoc. Prof. and Assoc.
Plant Path.

Subtropical Horticulture:

*†S. H. Cameron, Ph. D., Head of Div. *†J. B. Biale, Ph. D., Assoc. Prof. Subtrop. Hort.; Assoc. Plant Physiol.

Subtropical Horticulture-Continued

*†R. S. Bringhurst, Ph. D., Instr. Subtrop.

Hort. and Asst. Plant Breeder.

*†F. F. Hallma, Ph. D., Prof. Supbtrop. Hort.;

Subtrop. Hort.

*†C. A. Schroeder, Ph. D., Asst. Prof. Subtrop. Hort.; Asst. Plant Morphol.

*†Arthur Wallace, Ph. D., Instr. and Asst.

Plant Physiol.

Riverside

Biological Control:

*†H. S. Smith, M. A., Head of Div., Riverside and Berkeley,
†B. R. Bartlett, Ph. D., Asst. Ent.
†A. J. Basinger, M. S., Assoc. Spec. in Expt.

Sta. (Ent.). Compere, Spec. in Expt. Sta.

†Harold Compete, (Ent.), (Ent.), †P. H. DeBach, Ph. D., Asst. Ent. †S. E. Flanders, Ph. D., Ent. †C. A. Fleschner, Ph. D., Asst. Ent.

Entomology:

** A. M. Boyce, Ph. D., Head of Div., Riverside and Los Angeles.

†L. D. Anderson, Ph. D., Assoc. Ent.
†E. L. Atkins, Jr., M. S., Asst. Spec. in Expt.
Sta. (Ent.),
†M. M. Barnes, Ph. D., Asst. Ent.
†G. E. Carman, Ph. D., Assoc. Ent.
†R. C. Dickson, Ph. D., Asst. Ent.
†H. S. Elmer, M. S., Junior Spec. in Expt.
Sta. (Ent.),
†W. H. Ewart, Ph. D., Asst. Ent.
†P. D. Gerhardt, Ph. D., Junior Ent.
†F. A. Gunther, Ph. D., Asst. Insect Toxicologist.

TF. A. Guntner, Ph. D., Asst. Insect Toxicologist.

†L. R. Jeppson, Ph. D., Asst. Ent.
†D. L. Lindgren, Ph. D., Assoc. Ent.
†R. B. March, Ph. D., Asst. Ent.
†R. L. Metcalf, Ph. D., Assoc. Ent.
†J. C. Ortega, B. S., Asst. Spec. in Expt.
Sta. (Ent.).
†H. T. Reynolds, Ph. D., Junior Ent.
†L. A. Riehl, Ph. D., Asst. Ent.

†L. A. Riehl, Ph. D., Asst. Ent.

Extension Service (Agr.):

‡J. C. Johnston, B. S., Ext. Spec. in Citriculture.

Irrigation and Soils:

†S. J. Richards, Ph. D., Asst. Irrig. Engin.

Orchard Management:

†E. R. Parker, Ph. D., Head of Div., Hort. †W. P. Bitters, Ph. D., Asst. Hort. *†I. J. Condit, Ph. D., Prof. Subtrop. Hort.; Subtrop. Hort. †T. W. Embleton, Ph. D., Asst. Hort. †W. W. Jones, Ph. D., Assoc. Hort.

Plant Breeding:

†J. W. Lesley, Ph. D., Head of Div., Genet-†J. W. Lesies, I.E. S., tolst. tolst. †J. W. Cameron, Ph. D., Asst. Geneticist. †R. K. Soost, Ph. D., Junior Geneticist.

Plant Pathology:

*†L. J. Klotz, Ph. D., Head of Div., Riverside and Los Angeles.
†R. C. Baines, Ph. D., Assoc. Plant Path.
†D. E. Bliss, Ph. D., Plant Path.
†E. C. Calavan, Ph. D., Asst. Plant Path.
†E. F. Darley, Ph. D., Asst. Plant Path.
†P. R. Desjardins, B. S., Junior Spec. in Expt. Sta. (Plant Path.).
†J. B. Kendrick, Jr., Ph. D., Asst. Plant Path.

7J. B. Kendrick, Jr., Fh. D., Asst. Funt Path.
†J. T. Middleton, Ph. D., Assoc. Plant Path.
†Henry Schneider, Ph. D., Asst. Plant Path.
†J. M. Wallace, Ph. D., Plant Path.
†G. A. Zentmyer, Ph. D., Assoc. Plant Path.

Plant Physiology:

†W. B. Sinclair, Ph. D., Head of Div., Bio-

chem.
†B. E. Day, Ph. D., Junior Plant Physiol.
†L. C. Erickson, Ph. D., Asst. Plant Physiol.
†A. R. C. Haas, Ph. D., Plant Physiol.
†F. M. Turrell, Ph. D., Assoc. Plant Physiol.
†R. T. Wedding, Ph. D., Junior Plant

Physiol.

Soils and Plant Nutrition:

oils and Plant Nutrition:

*†H. D. Chapman, Ph. D., Head of Div.
†D. G. Aldrich, Ph. D., Assoc. Chem.
†G. R. Bradford, M. S., Junior Spec. in Expt.
Sta. (Soils and Plant Nutr.).

†R. B. Harding, Ph. D., Junior Chem.
†B. M. Laurance, E. Met., Asst. Spec. in
Expt. Sta. (Soils and Plant Nutr.).
†G. F. Liebig, A. B., Asst. Spec. in Expt. Sta.
(Soils and Plant Nutr.).

†J. P. Martin, Ph. D., Asst. Chem.
†A. P. Vanselow, Ph. D., Asst. Chem.
†E. F. Wallihan, Ph. D., Asst. Chem.

COLORADO

Colorado Agricultural and Mechanical College and the Agricultural Experiment Station, Fort Collins

*College faculty. †Station staff. ‡ \$Leave of absence. ‡Extension staff.

*†‡W. E. Morgan, M. S., President

*†H. J. Henney, M. S., Dean Div. of Agr., Dir. of Sta.

‡F. A. Anderson, Dir. of Ext. Service.

*†W. R. Horlacher, Ph. D., Assoc. Dean Div. of Agr.

†S. S. Wheeler, Ph. D., Vice Dir. of Sta.

‡J. E. Morrison, B. S., Asst. Dir. of Ext. Service.

*†J. M. Whalley, M. S., Treas.

Agronomy:

Agronomy:

*†D. W. Robertson, Ph. D., Prof. and Head of Dept. (Cereal Brdg.).

†R. C. Accola, B. S., Soil Sci. (Coop. U. S. D. A.).

†Minoru Ameniya, Ph. D., Assoc. Agron. (Coop. U. S. D. A.).

*†K. G. Brown, M. S., Asst. Prof. and Asst. Agron. (Soils).

*†R. E. Danielson, M. S., Instr. and Asst. Agron. (Soils).

†G. W. Deming, B. S., Assoc. Agron. (Coop. U. S. D. A.).

U. S. D. A.).

*†Robert Gardner, M. S., Prof. Agron.;
Agron. (Soils).

Agronomy-Continued

Agronomy—Continued

†C. E. Gausman, B. S., in charge Field Crops (Seed Certification).

*†G. J. Gausman, M. S., Asst. Prof. and Asst. Agron. (Crops).

*†T. E. Haus, M. S., Asst. Prof. and Asst. Agron. (Crops).

†O. J. Kelley, Ph. D., Prin. Soil Sci. (Coop. U. S. D. A.).

*†D. W. Koonce, M. S., Assoc. Prof. and Assoc. Agron.

*†D. W. Koonce, M. S., Assoc. Prof. and Assoc. Agron.

†W. H. Leonard, Ph. D., Prof. Agron.; Agron. (Crops).

*†\$J. L. Mellor, B. S., Asst. Prof. and Asst.

Agron. (Soils).

Agronomy—Continued

- †D. E. Miller, B. S., Asst. Agron. (Soils).
 †S. R. Olsen, Ph. D., Soil Chem. (Coop. U. S. D. A.).
 †E. M. Payne, B. S., Soil Sci. (Coop. U. S. D. A.).
 *†D. S. Romine, M. S., Assoc. Prof. and Assoc. Agron. (Soils).
 *†W. R. Schmehl, Ph. D., Assoc. Prof. and Assoc. Agron. (Soils).

- *†W. R. Schmehl, Ph. D., Assoc. Prof. and Assoc. Agron. (Soils), ‡R. H. Tucker, B. S., Ext. Agron. †F. S. Watanbe, M. S., Soil Sci. (Coop. V. S. D. A.). *†§R. S. Whitney, M. S., Assoc. Prof. and †F. M. Willhite, M. S., Assoc. Agron. (Soils). †F. M. Willhite, M. S., Assoc. Agron. (Soils). Agron. (Crops).

Animal and Dairy Industry:

- *†S. S. Wheeler, Ph. D., Prof. and Head of Dept. and Sect. *J. A. Banghart, B. S., Instr. Dairy Mfg. *†E. B. Bertone, M. S., Assoc. Prof. and Assoc. in Wool Technol. *†T. R. Blackburn, B. S., Instr. and Asst. An.
- *†W. E. Connell, M. S., Prof. An. Husb.; An.
- *†A. L. Esplin, M. S., Assoc. Prof. and Assoc.
 An. Husb.

 *†A. L. Esplin, M. S., Assoc. Prof. and Assoc.
 An. Husb.

 *†M. H. Hazaleus, M. S., Assoc. Prof. and

- *†M. H. Hazaleus, M. S., Assoc. Proj. and Assoc. An. Husb. *†E. K. McKellar, M. S., Asst. Prof. and Asst. Dairy Husb. ‡H. A. Sandhouse, M. S., Ext. Dairyman. *†H. H. Stonaker, Ph. D., Prof. An. Husb.;
- An. Husb. *†L. E. Washburn, Ph. D., Prof. An. Husb.;
- *†§E. B. Williams, M. S., Assoc. Prof. and Assoc. in Dairy Mfg.

Botany and Plant Pathology:

- *†L. W. Durrell, Ph. D., Prof. and Head of Dept. and Sect. Dean of Sci. and Arts.

 *†J. L. Fults, Ph. D., Prof. Bot.; Bot.

 *B. M. Gardner, M. S., Asst. Prof. Bot.

 †J. O. Gaskill, M. S., Plant Path. (Coop. U. S. D. A.).

 *†N. R. Gerhold, M. S., Asst. Prof. and Asst. Plant Path.

 ††H. D. Harrington, Ph. D., Assoc. Prof. and Assoc. Bot.

- Assoc. Bot.

 ‡W. J. Henderson, M. S., Ext. Plant Path.

 †L. G. Kautz, M. S., Asst. Bot. (Seed Lab.).

 *Bruno Klinger, M. S., Assoc. Prof. Bot.

 *†G. H. Lane, M. S., Assoc. Prof. and Assoc.
- Plant Path.
- **Plant Pain. † E. A. Lungren, M. S., Assoc. Plant Path. (Coop. U. S. D. A.).

 *†R. H. Porter, Ph. D., Assoc. Prof. and Plant Path.

 †Lawrence Schaal, Ph. D., Assoc. Plant Path. (Coop. U. S. D. A.).

 †\$R. L. Skiles, B. S., Instr. and Asst. Plant Path.
- *†§R. L. Path. *†A. O. Simonds, Ph. D., Assoc. Prof. and

- *†W. D. Thomas, Ph. D., Assoc Prof. and Assoc. Plant Path.

 †B. J. Thornton, M. S., Assoc. Prof. and Assoc. Bot., in charge Seed Lab.

Chemistry:

- *†W. E. Pyke, Ph. D., Prof. and Head of Dept. and Sect.

 *†R. E. Carlson, Ph. D., Asst. Prof. and Asst. Chem.
- *†L. W. Charkey, Ph. D., Assoc. Prof and
- *Assoc. Chem.

 *Mrs. Lois J. Coakley, B. S., Instr. Chem.

 *E. B. Crone, Ph. D., Asst. Prof. Chem.

 *†H. A. Durham, M. A., Asst. Prof. and Asst.

Chemistry—Continued

- *†Mrs. Madeline Ferrigan, B. S., Instr. and Res. Asst. in Chem. *†P. R. Frey, Ph. D., Assoc. Prof. and Assoc.
- Chem.
- *D. V. Harris, M. S., Assoc. Prof. Geol. *†M. L. Hopwood, B. S., Asst. Prof. and Asst.
- *K. G. Irwin, M. S., Asst. Prof. Chem.

 *K. G. H. Johnson, Ph. D., Prof. Chem.

 *†Duane Johnson, B. S., Instr. and Res. Asst.
- in Chem.
- *†Gestur Johnson, M. S., Asst. Prof. and Asst. Chem. †Adeline Kano, B. S., Res. Asst. in Chem. *W. B. King, M. S., Asst. Prof. Chem. †J. Lehman, Jr., Ph. D., Asst. Prof. and Asst. Chem.
- *TJ. J. Lenman, Jr., Ph. D., Asst. Proj. and Asst. Chem.

 *D. D. Maag, M. S., Asst. Prof. Chem.
 †Marjorie Mayer, M. S., Res. Asst. in Chem.
 †A. R. Patton, Ph. D., Prof. Chem.; Chem.
 *G. H. Splitgerber, M. S., Instr. Chem.
 *Elizabeth M. Wing, M. A., Assoc. Prof.
- Chem.
- *W. L. Wooding, M. A., Instr. Chem.

Economics and Sociology:

- *†R. T. Burdick, Ph. D., Prof. and Head of Dept. and Sect.

 \$\frac{1}{2}\text{S. A. Bice, B. S., Ext. Agr. Econ.}\$

 *C. W. Birky, M. A., Assoc. Prof. Sociol.

 *†Mrs. Catherine R. Clark, B. A., Instr. and

- Asst. Sociol. *†C. R. Creek, M. S., Assoc. Prof. and Assoc. Econ.
- *D. N. Donaldson, M. S., Prof. Econ. *N. F. Furniss, Ph. D., Instr. History. *†H. P. Gazaway, M. S., Asst. Prof. and Asst.
- *†H. P. Gazaway, M. S., Asst. 1101, and 1100.
 Rural Econ.

 *SE. C. Hunter, M. S., Instr. Econ.

 *†Arthur Katona, Ph. D., Assoc. Prof. and
 Assoc. Sociol.

 *J. C. McKinnon, M. A., Assoc. Prof. History.

 *B. B. Mischke, M. A., Asst. Prof. Govern-
- *Ruth L. Roberts, M. A., Asst. Prof. Busi-

- *Ruth L. Roberts, M. L., 1988.

 *ness.

 *D. E. Shannon, L. L. B., Instr. Business Law.

 *W. G. Steglich, M. A., Instr. Sociol.

 *†D. M. Stevens, M. S., Assoc. Prof. and Assoc. Rural Econ.

 ‡T. H. Summers, M. S., Senior Ext. Agr. Econ.

 *E. R. Tannenbaum, Ph. D., Asst. Prof. Bistory.
- *Edmund Whittaker, Ph. D., Prof. Econ.

Education (Agr.):

- *R. W. Canada, M. S., Assoc. Prof. Voc.
- Agr. Ed.
 *E.J. F. Early, M. S., Asst. Prof. Voc. Agr. Ed.
 *Herb Heilig, A. B., Prof. and Dir. of Voc.

Engineering:

- *†T. H. Evans, M. S., Dean of Engin., Chair.
- of Div.
 *G. F. Henry, M. S., Prof. and Head Indus.
- *G. F. Henry, M. S., Froj. and Road Lada. Arts Dept.

 *H. G. Jordan, M. S., Prof. and Head Dept. Electrical Engin.

 *†D. W. Peterson, Ph. D., Prof. and Head Civil and Irrig. Engin.

 *†J. T. Strate, M. S., Prof. and Head Dept. of Mech. Engin.
- *† M. L. Albertson, Ph. D., Assoc. Prof. and Assoc. Civil Engin.
 †R. D. Barmington, B. S., Assoc. Mech. En-
- † K. D. Darminger,
 gin.
 *C. C. Britton, M. S., Asst. Prof. Electrical
 Engin.
 *†J. E. Cermak, B. S., Asst. Prof. and Asst.
 Civil Engin.

Engineering-Continued

*J. S. Chasteen, B. S., Asst. Prof. Mech.

*J. S. Chasteen, S. S., Engin.
*C. H. Chinburg, M. S., Asst. Prof. Electrical Engin.
†W. E. Code, B. S., Assoc. Irrig. Engin.
*H. W. Collins, M. A., Assoc. Prof. Civil

*H. W. COHINS, M. A., Zeord Engin.

*J. C. Dodge, B. S., Assoc. Prof. Indus. Arts.

‡P. B. Doherty, B. S., Ext. Asst. Agr. Engin.
(U. S. D. A.).

*I. S. Dunn, M. S., Instr. Civil Engin.

*L. L. Gibbons, M. S., Asst. Prof. Indus.

Arts.

†P. F. Gifford, B. E., Assoc. Agr. Engin.
(Coop. U. S. D. A.).

*J. I. Gronberg, M. S., Asst. Prof. Mech. Engin.

‡A. J. Hamman, Ext. Irrig. Spec.
*H. H. Kob, B. S., Assoc. Prof. Indus. Arts.
*G. L. Koonsman, B. S., Instr. Civil Engin.
*P. H. Lindon, M. S., Assoc. Prof. Electrical

Engin.

†S. W. McBirney, B. S., Senior Agr. Engin.
(Coop, U. S. D. A.).

*H. B. Mummert, B. S., M. E., Assoc. Prof.

*H. B. Mummert, B. S., M. E., Assoc. Prof. Mech. Engin.

*†Maxwell Parshall, B. S., Asst. Prof. and Asst. Irrig. Engin.

*†S. D. Resnik, M. S., Asst. Prof. and Asst. Civil Engin.

†A. R. Robinson, B. S., Asst. Irrig. Engin.

†C. H. Rohwer, B. S., C. E., Senior Irrig. Engin. (Coop. U. S. D. A.).

*†\$R. L. Rollins, M. S., Asst. Prof. Civil Engin.; Asst. Irrig. Engin.

*H. H. Schweizer, B. S., Instr. Civil Engin.

*J. H. Scofield, M. E., Prof. Mech. Engin.

†G. R. Stafford, Engin. Aid (Coop. U. S. D. A.).

†G. R. Stanova, Zagara
 D. A.).
 †H. J. Stockwell, B. S., Irrig. Engin. (Coop. U. S. D. A.).
 ‡O. J. Trenary, B. S., Ext. Agr. Engin.

Entomology:

*†L. B. Daniels, M. S., Assoc. Prof. and Actg. Head of Dept. and Sect. *†J. L. Hoerner, M. S., Assoc. Prof. and Assoc.

*†J. D. Huerley, M. S., Ext. Ent.

‡G. T. Mickle, B. S., Ext. Ent.

†J. O. Moffett, B. S., Instr. and Asst. Ent.

†J. H. Newton, B. S., Assoc. Ent.

†T. O. Thatcher, Ph. D., Asst. Prof. and

Extension Administration:

‡F. A. Anderson, Dir.

‡J. E. Morrison, B. S., Asst. Dir.

‡S. G. Case, B. S., Rural Recreation Spec.

‡H. D. Finch, B. S., State Supvr. in charge County Office Mgt.

‡M. C. Grandy, B. S., Program Analyst.

‡F. N. Jordan, B. S., State Supvr. in charge Inter-Agency Relations and Coop. Programs

grams.

grams.

‡L. L. Osborn, B. S., Spec. in Work with Young Farmers and Homemakers.

‡Audrey Sandstead, B. S., Asst. State 4-H Club Agt.

‡C. G. Staver, B. S., State 4-H Club Agt.

‡T. G. Stewart, B. S., State Super. in charge County Organ., Planning, and Program Develonment. Development. ‡F. C. Taylor, B. C. S., Admin. Asst.

Forestry and Range Management:

*J. L. Deen, M. F., Ph. D., Dean of Div.

*†C. H. Wasser, M. S., M. F., Assoc. Prof.
and Head For. Sect.

*C. W. Barney, Ph. D., Assoc. Prof. For.
Mgt.

*M.C. Bryant, M. S., Assoc. Prof. For. Mgt. †R. E. Ford, B. S., Ext. For. *†D. F. Hervey, M. S., Asst. Prof. and Asst. in Range Conserv. *E. W. Mogren, M. F., Instr. For. Mgt.

Forestry and Range Management-Continued

*W. H. Schaeffer, M. F., Asst. Prof. For.

*W. H. Schaeffer, M. F., Asst. Prof. For. Mgt.

*H. W. Steinhoff, M. S., Asst. Prof. For. Recreation and Game Mgt.

*†C. J. Terwilliger, M. F., Instr. and Asst. Range Conserv.

†H. E. Troxell, M. F., Asst. Prof. and Asst. For.

*C. H. Vaux, M. F., Assoc. Prof. For. Mgt.

*J. V. K. Wagar, M. S. F., Prof. and Head Recreation For. and Game Mgt.

Home Economics:

*†Elizabeth Dyar, Ph. D., Prof. and Dean, Head of Sect. *May S. Bay, B. S., Instr. Home Econ. *Jean Benson, B. S., Instr. Home Econ. *†Ferne Bowman, Ph. D., Prof. Home Econ.;

*Home Econ.
*Dagmar C. Gustafson, M. S., Assoc. Prof. Home Econ.
*Clara A. Hatton, M. F. A., Assoc. Prof. Home Econ.
*Mrs. Jeanette B. Hendricks, M. A., Asst.

*Moselle Holberg, M. S., Asst. Prof. Home

Econ.†Miriam E. Hummel, M. S., Asst. Home

Econ. ‡Mrs. Ann R. Jackson, M. A., Ext. Clothing

Spec. †Mariana Kulas, M. S., Res. Asst. Home Econ.

‡Kathryn M. McNey, B. S., Ext. Home Fur-

TRAINTYIN M. MCNEY, B. S., East. Home Agt. Helen Prout, B. S., East. State Home Agt. *Mrs. Helen T. Rea, B. S., O. T. R., Asst. Prof. Home Econ. *Winifred Reynolds, M. S., Asst. Prof. Home

Econ.

*Doris G. Saxon, M. S., Instr. Home Econ. *Patsy Shobe, M. A., Assoc. Prof. Home

Econ. †May S. Stanek, B. S., Ext. Nutr. *Norma E. Walker, B. D., Asst. Prof. Home Econ.

Horticulture:

†A. M. Binkley, M. S., Prof. and Head of

*†G. A. Beach, M. S., Prof. Hort.; Hort. †C. M. Drage, B. S., Ext. Hort. *†R. F. Farmer, B. S., Asst. Prof. and Asst.

*†A. C. Ferguson, M. S., Assoc. Prof. and Assoc. Hort.

†C. W. Frutchey, Ph. D., Ext. Potato Im-

provement Spec.

†J. S. Gregory, B. S., Asst. Hort.

*†W. D. Holley, M. S., Assoc. Prof. and Assoc.

Hort.

*†C. J. C. Jorgensen, M. S., Assoc. Prof. and

Assoc. Hort. *†Robert Kunkel, Ph. D., Prof. Hort.; Hort.

News and Radio Service (Pubs.):

*†‡R. W. Brown, B. S., Chief.

*†Mary Callopy, B. S., Asst. Editor.

*†‡G. D. Gale, B. S., Visual Aids Spec.

*†‡Esther Horsley, Pubs. Editor.

*‡P. J. Patterson, Asst. Editor.

*F. J. Shideler, B. S., Asst. Chief.

*R. G. Turner, Asst. Visual Aids Spec.

Poultry Husbandry:

*†E. G. Buss. M. S., Asst. Prof. and Actg. Head of Dept. and Sect. *‡F. X. Gassner, D. V. M., M. S., Prof. Poultry Husb.; Endocrinologist. *†‡C. L. Gish, M. S., Asst. Prof. and Asst. Poultry Husb.; Poultry Spec. *†1. L. Madsen, B. S., Instr. and Asst. Poultry Husb.

to. C. Ufford, B. S., Ext. Poultryman.

Veterinary Division:

†Floyd Cross, D. V. M., Dean of Div. *O. R. Adams, D. V. M., Assoc. Prof. Dept. Surg. and Clinics and Ambulatory Clinician.

*†Maxine Benjamin, D. V. M., Asst. Prof. and

Asst. Bact.
*N. H. Booth, D. V. M., Asst. Prof. Physiol.
*†F. K. Bracken, D. V. M., Asst. Prof. and

*†F. K. Bracken, D. V. M., Asst. Prof. unu Asst. Path.

*W. J. Coon, A. B., Asst. Prof. Physiol.

*R. W. Davis, D. V. M., Prof. and Head Dept. of Vet. Anat.

*†A. W. Deem, D. V. M., M. S., Prof. and Head Dept. of Vet. Path. and Bact.

*D. D. Delahanty, D. V. M., Asst. Prof. Surg.

and Clinics.
*L. W. Dickey, M. D., Spec. Lect. Instr. Path. and Bact.
*G. P. Epling, D. V. M., Assoc. Prof. Vet.

*James Farquharson, D. V. M., Prof. and Head Dept. of Vet. Surg. and Clinics. *R. D. Frandson, D. V. M., Asst. Prof. Vet. Anat.

A. A. Goodman, D. V. M., Ext. Vet. L. A. Griner, D. V. M., M. S., Asst. Vet.

†A. A. Path. S. J.

*R. S. Jackson, D. V. M., Asst. Prof. Path. and Bact.

*†Rue Jensen, D. V. M., Prof. Vet. Path.

*R. H. Jourdon, D. V. M., Asst. Prof. Vet.
Med.

*R. V. Kelling, D. V. M., Asst. Prof. Surg. and Clinics.

*F. J. Milne, D. V. M., Asst. Prof. Surg. and Clinics. *S. M. Morrison, M. S., Ph. D., Asst. Prof.

Veterinary Division-Continued

*†J. L. Palotay, D. V. M., Asst. Prof. Path. and Bact.; Asst. Path. etc. Surg. and Clinics.

*S. A. Patterson, M. D., Spec. Lect. Surg. and Clinics.

*A. D. Rankin, D. V. M., Prof. and Head Dept. of Vet. Physiol.

*Mrs. Margaret P. Stimmel, M. S., Asst. Prof. Vet. Path. and Bact.

†J. W. Tobiska, M. A., Chem., Path. Sect.

Zoology:

*†0. W. Olsen, Ph. D., Prof. and Head of

Dept.; Parasit. B., Froj. and Heur Dept.; Parasit. *P. H. Baldwin, Ph. D., Asst. Prof. Zool. *R. G. Beidleman, M. A., Asst. Prof. Zool. *T. A. Woolley, Ph. D., Asst. Prof. Zool.

Miscellaneous:

*J. G. Hodgson, B. A., B. L. S., Libr. †Nellie L. Landblom, B. A., Res. Stat. *†Jean Maunier, Asst. to Dean and Dir.

Branch Stations:

W. R. Horlacher, Ph. D., Dir. Arkansas Valley Br. Sta., P. O., Rocky Ford---

Herman Fauber, M. S., Supt.

San Juan Basin Br. Sta., P. O., Hesperus-C. D. Rea, Dir.

San Luis Valley Br. Sta., P. O., Monte Vista— , Supt.

U. S. Dry Land Field Sta., P. O., Akron-J. F. Brandon, B. S., Supt. (Coop. U. S. D. A.).

U. S. Potato Sta., P. O., Greeley— W. C. Edmundson, M. S., Hort. in charge (Coop. U. S. D. A.). Western Slope Br. Sta., P. O., Austin— F. M. Green, B. S., Supt.

CONNECTICUT

College of Agriculture and the Storrs Agricultural Experiment Station of the University of Connecticut, Storrs (Telegraph address, Storrs via Willimantic; railroad station and express address, Willimantic).

*College faculty. †Station staff. ‡Extension
\$Leave of absence. ||Military leave. ‡Extension staff.

*A. N. Jorgensen, Ph. D., LL. D., President of University.

*A. E. Waugh, M. S., Provost of University.

†‡W. B. Young, M. S., D. Agr. (hon. c.), Dean Coll. of Agr., Dir. of Sta., Dir. of Agr. Ext.

*A. I. Mann, M. S., Asst. Dean of Agr., Dir. Ratcliffe Hicks School of Agr. and

Short Courses.

†A. A. Spielman, Ph. D., Assoc. Dir. of Sta. ‡R. G. Hejburn, B. S., Assoc. Dir. of Agr. Ext. *†L. C. Riccio, Comptroller.

Animal Diseases:

*†§E. L. Jungherr, D. M. V., Prof. and Head of Dept.

7 Pept.
of Dept.
† || W. E. Burr, M. S., Instr. An. Diseases.
† Mrs. Carolyn R. Chernak, B. S., Res. Tech.
in An. Diseases.
T. Westerbrooks, D. V. M., Asst. Prof. *†‡H. L. Easterbrooks, D. V. M., Asst. Prof.

An. Diseases. †F. Feibel, B. S., Asst. Instr. An. Diseases. †Dorothy A. Glass, B. A., Res. Tech. in An.

†Corinne D. Gourd, B. A., Res. Tech. in An.

†H. H. Hale, B. S., Asst. Prof. An. Diseases.
†T. E. Helmboldt, D. V. M., Assoc. Prof. An. Diseases.
†R. E. Jacobs, B. S., Instr. An. Diseases.
†M. Jeanne Kahnke, Ph. D., Asst. Prof. An. Diseases.

Diseases.

†R. E. Luginbuhl, B. S., Instr. An. Diseases. †R. P. Pirozok, B. S., Asst. Instr. An. †R. P. Pirozok, B. S., Asst. Ind., Diseases. †W. N. Plastridge, Ph. D., Prof. An. Dis-

Animal Diseases-Continued

†Lydia L. Polomski, B. S., Asst. Instr. An. Diseases†Jayne R. Ricketts, B. S., Res. Tech. in An.

Diseases.

†Maureen H. Sheehan, R. N., Res. Asst. in An. Diseases. †Elizabeth C. Walker, B. A., Res. Tech. in

An. Diseases. †L. F. Williams, M. S., Asst. Prof. An. Dis-

eases. *†‡J. D. Winn, V. S., Assoc. Prof. An. Diseases.

Animal Industries:

*†F. I. Elliott, Ph. D., Head of Dept., Prof. Dairy Husb.

†E. O. Anderson, M. S., Prof. Dairy Mfg.
†J. E. Avampato, B. S., Res. Tech. in An. Indus.

‡F. A. Buschner, B. S., Instr. An. Indus.
*J. A. Christian, M. S., Asst. Prof. An.
Husb.
†K. L. Dolge, B. A., Res. Tech. in An. Indus.
*L. R. Dowd, M. S., Assoc. Prof. Dairy Mfg.

Animal Industries—Continued

*†H. D. Eaton, Ph. D., Assoc. Prof. An. Nutr.
*W. S. Gaunya, M. S., Asst. Prof. An. Indus.
†D. C. Gaylord, B. S., Asst. Prof. An. Husb.
*R. B. Hallmark, M. S., Asst. Prof. An. Husb.
†W. R. Hesseltine, B. S., Instr. An. Indus.
*†R. E. Johnson, M. S., Assoc. Prof. Dairy

Husb.†Helen P. MacLeod, M. S., Instr. Dairy

Husb

*A. H. Manke, Asst. Instr. An. Indus.
*A. I. Mann, M. S., Prof. Dairy Husb.
*R. E. Marland, M. S., Asst. Prof. Dairy

Mfg.

†R. D. Mochrie, B. S., Res. Tech. in An. Indus

*†M. E. Morgan, Ph. D., Assoc. Prof. Dairy

Mfg.

†A. A. Spielman, Ph. D., Prof. Dairy Husb.
*H. L. Wildasin, Ph. D., Instr. Dairy Mfg.

Economics (Agr.) and Farm Management:

*†‡\$E. A. Perregaux, Ph. D., Prof. Agr. Econ.

*†G. K. Brinegar, M. A., Asst. Prof. Agr.
Econ.

‡K. P. Brundage, M. S., Instr. Farm Mgt.
†A. W. Dewey, M. S., Asst. Prof. Agr. †A. W. Econ

*†\$1. F. Fellows, M. S., Assoc. Prof. Agr. Econ.
†‡H. G. Halcrow, Ph. D., Prof. Agr. Econ.
†‡W. F. Henry, M. S., Asst. Prof. Farm Mgt.
†‡S. M. Johnson, Ph. D., Prof. Agr. Econ.
†‡R. A. King, M. P. A., Asst. Prof. Agr. Econ.
*†P. L. Putnam, M. S., Prof. Farm Mgt.
*†S. K. Seaver, M. S., Assoc. Prof. Agr. Econ.
‡Mildred B. Smith, A. M., Asst. Prof. Agr.
Econ.

Econ. . W. VanDyke, M. S., Asst. Prof. Agr.

Editorial:

*†Walter Stemmons, B. S., Editor. ‡H. W. Baldwin, B. S., Agr. Editor. *Mrs. Mary K. Manchester, M. A., Asst.

*†‡R. E. Parker, B. S., Asst. Agr. Editor.

*†‡R. E. Parker, B. S., Asst. Agr. Editor.

*†‡C. J. York, B. S., Supvr. Agr. Mail Room.

Engineering (Agr.):

*†M. S. Klinck, B. S., B. S. M. E., Assoc. Prof. and Actg. Head of Dept. *B. L. Bondurant, B. S. A. E., Instr. Agr. Engin. W. C

†G. W. Crowther, M. S., Asst. Proj. Ay., Engin.
†W. A. Junnila, M. S., Asst. Agr. Engin.
(Coop. U. S. D. A.).
*‡E. L. Palmer, B. S., Instr. Agr. Engin.
*J. H. Whitaker, M. S., Instr. Agr. Engin.

Extension Administration:

‡W. B. Young, M. S., D. Agr. (hon. c.), Dir. ‡R. G. Hepburn, B. S., Prof. Agr. Ext. and

‡R. G. Hepburn, B. S., Prof. Agr. Ext. and Assoc. Dir.

‡Mrs. Ruth R. Clark, B. S., Prof. Home Econ. and State Home Dem. Leader.

‡H. M. Hansen, B. S., Asst. Prof. Dairy Husb. and County Agt. Leader.

‡\$W. E. Schmidt, M. S., Asst. Prof. Agr. Ext. and Asst. State 4-H Club Leader (Older Youth).

‡R. W. Whaples, B. S., Assoc. Prof. Agr. Ext. and State 4-H Club Leader.

Genetics (Animal):

†Walter Landauer, Ph. D., Prof. and Head of Dept. †M. C. Feibel, M. A., Asst. Instr. An. Ge-

netics. †Marion B. Rhodes, B. S., Asst. Instr. Ge-

netics.
dgar Zwilling, Ph. D., Assoc. Prof. Ge-†Edgar

Home Economics:

*†Clara C. Cerveny, M. A., Prof. and Dean of School. *Marjorie B. Carter, Asst. Instr. Home

Econ.

‡Janina M. Czajkowski, M. S., Asst. Prof.
Foods and Nutr.

*Adele Davine, M. A., Asst. Prof. Child De-

*Adele Davine, M. A., Asst. Proj. Unita Development.

*Jean DeLaney, M. S., Instr. Child Development and Family Relations.

*Philip Dole, B. Art., Instr. Art.

*Vera B. Forsyth, B. A., Instr. Home Mgt.

*Mary I. Greenwood, Ph. D., Assoc. Prof.

Foods and Nutr.

*Geraldine Henneberry, M. S., Instr. Foods
and Institutional Mgt.

*Adeline M. Hoffman, M. A., Asst. Prof.

Clothino.

Clothing.
*Betty J. Johnston, M. S., Instr. Home Mgt.
*Onnalee Jones, M. S., Asst. Prof. Foods and

Nutr. *Wilma B. Keyes, B. S., Asst. Prof. Art. ‡Sidney Korando, M. A., Asst. Prof. Home

Mgt.
*Helen Magnusson, M. S., Instr. Clothing and Art.
‡Fay M. Moeller, M. A., Asst. Prof. Family Life.

*Barbara Norman, M. S., Instr. Child Development and Family Relations.
*Dorothy O'Knefski, M. A., Instr. Art.
'†Martha Potgieter, Ph. D., Assoc. Prof.
Foods and Nutr.
*Doris K. Pyne, M. A., Instr. Home Econ.

*†Martha

Ed. *Mary E. Roach, M. S., Instr. Textiles and Clothing. *Elizabeth Rogge, M. S., Asst. Prof. Foods

and Nutr.
*Edna Sakamoto, M. A., Res. Asst. Foods
and Nutr.

*Cynthia Snow, M. A., Asst. Prof. Art. ‡Katherine A. Tingley, M. A., Assoc. Prof.

Clothing.

*Mrs. Pearl G. Widmer, M. S., Asst. Prof. Textiles and Art.

Plant Science:

Plant Science:

*†H. A. Rollins, M. S., Head of Dept. and Prof. Hort.

†A. C. Bobb, M. S., Asst. Prof. Pomol.

*K. A. Bradley, B. S., Asst. Prof. Hort.

†B. A. Brown, M. S., Prof. Agron.

‡F. M. Callward, B. S., Assoc. Prof. For.

*Henry Dorsey, Ph. D., Prof. Agron.

*†W. O. Drinkwater, M. S., Instr. Veg. Gard.

†Arthur Hawkins, Ph. D., Prof. Agron.

*†B. E. Janes, Ph. D., Assoc. Prof. Pomol.

‡F. D. Johanson, B. S., Asst. Prof. Pomol.

‡C. G. Keyes, Ph. D., Assoc. Prof. Flor.

‡A. R. Kienholz, Ph. D., Prof. For.

‡A. V. King, M. S., Instr. Agron.

*†J. M. Lent, M. Ed., Asst. Prof. Hort.

*B. F. McCamey, Jr., M. F., Asst. Prof. Wildlife Mgt.

‡E. C. Minnum, M. S., Asst. Prof. Veg. Gard.

*†R. I. Munsell, M. S., Asst. Prof. Agron.

*R. C. O'Knefsi, B. S., Instr. Floor.

‡J. S. Owens, M. S., Prof. Agron.

*H. O. Perkins, M. L. A., Asst. Prof. Landsc. Gard.

**E. J. Eubins Ph. D. Asst. Prof. Agron.

*H. O. Perkins, M. L. A., Asst. Prof. Lanasc. Gard.

*†E. J. Rubins, Ph. D., Asst. Prof. Agron.
†John Scarchuk, B. S., Instr. Veg. Gard.

*†R. F. Stinson, M. S., Asst. Prof. Flor.

*†R. H. Sudds, Ph. D., Assoc. Prof. Pomol.
‡O. S. Trask, B. S., Asst. Prof. Hort. and Poultry Husb.

*E. P. Wyman, M. F., Asst. Prof. For.

Poultry Husbandry:

*†E. P. Singsen, Ph. D., Prof. and Head of

Dept. *†J. R. Carson, Ph. D., Asst. Prof. Poultry Husb.

Poultry Husbandry-Continued

†Lois Decker, B. S., Res. Tech. in Poultry

Husb. ‡R. E. Jones, Prof. Poultry Husb. ‡Anna Kozeff, B. S., Asst. Instr. Poultry Husb.

†L. D. Matterson, Ph. D., Assoc. Prof. Poul-

try Husb.

*†F. A. Ryan, M. S., Assoc. Prof. Poultry

*Busb.

*D. W. Talmadge, B. S., Instr. Poultry

*D. W.

Sociology (Rural):

*†N. L. Whetten, Ph. D., Prof. and Head of Dept., Dean of Grad. School.

Sociology (Rural) -- Continued

†R. G. Burnight, M. A., Asst. Prof. Rural

Sociol. †W. C. McKain, Jr., Ph. D., Assoc. Prof. Rural Sociol.

Miscellaneous:

*Paul Alcorn, B. A., Libr.
†C. I. Bliss, Ph. D., Biometrician.

*W. H. Martin, M. S., Assoc. Prof. Agr. Ed.
tN. P. Tedrow, B. S., Ext. Soil Conserv.
(Coop. U. S. D. A.).

†S. B. Weeks, B. S., Agr. Econ. (Coop U. S. D. A.).

Connecticut Agricultural Experiment Station, New Haven 4

†Station staff.

†J. G. Horsfall, Ph. D., Director and Treasurer.

Analytical Chemistry:

nalytical Chemistry:
†H. J. Fisher, Ph. D., Chem. in charge.
†R. A. Botsford, B. S., Asst. Chem.
†L. G. Keirstead, B. S., Asst. Chem.
†Helen L. Kocaba, B. S., Res. Tech.
†W. T. Mathis, Assoc. Chem.
†R. T. Merwin, A. B., Asst. Chem.
†G. R. Nelson, B. S., Asst. Chem.
†R. R. Nichols, Sampling Agt.
†O. L. Nolan, Asst. Chem.
†Janetha L. Shepard, Res. Tech.
†G. R. Smith, Res. Tech.
†S. Squires, B. S., Asst. Chem.
†A. F. Wichroski, M. A., Asst. Chem.

Biochemistry:

†H. B. Vickery, Ph. D., Biochem. in charge.
†Marjorie D. Abrahams, A. M., Res. Tech.
†C. A. Hargreaves, Ph. D, Asst. Biochem.
†Rebecca B. Hubbell, Ph. D., Asst. Biochem.
†A. N. Meiss, Ph. D., Asst. Biochem.
†L. S. Nolan, Res. Tech.

Entomology:

†R. B. Friend, Ph. D., Ent. in charge (State Ent.).
†R. L. Beard, Ph. D., Assoc. Ent.
†W. T. Brigham, B. S., Res. Tech.

†O. B. Cooke, Deputy in charge, Gypsy Moth Control.

Control.

Alphonse DeCaprio, B. S., Res. Tech.

† Alphonse DeCaprio, B. S., Res. Tech.

† Philip Garman, Ph. D., Assoc. Ent.

† Patricia Hoy, B. A., Res. Tech.

† J. P. Johnson, B. S., Asst. Ent.

† Bessie M. Kennedy, Res. Tech.

† B. W. McFarland, Res. Tech.

† A. V. Miller, Res. Tech.

† G. H. Plumb, Ph. D., Asst. Ent.

† J. E. Riley, Jr., M. F., in charge Blister

Rust Control (Coop. U. S. D. A.).

† J. C. Schread, M. S., Asst. Ent.

† R. A. Spencer, Res. Tech.

† J. F. Townsend, B. S., Res. Tech.

† Neely Turner, M. A., Assoc. Ent.

† Nancy C. Woodruff, B. A., Res. Tech.

Entomology-Continued

†M. P. Zappe, B. S., Assoc. Ent. (Deputy State Ent.).

Forestry:

†H. W. Hicock, M. F., For. in charge. †A. R. Olson, Res. Tech.

Plant Breeding:

†D. F. Jones, Sc. D., Geneticist in charge. †H. L. Everett, Ph. D., Asst. Geneticist. †A. H. Graves, Ph. D., Genetics Consult.

Plant Pathology and Botany:

†A. E. Dimond, Ph. D., Plant Path. in

†A. E. Dimond, Fh. D., Tathe Tan-charge:
†David Davis, Plant Path.
†A. D. McDonnell, Res. Tech.
†Frances W. Meyer, A. B., Seed Tester.
†Eleanor Moquet, B. S., Res. Tech.
†Saul Rich, Ph. D., Asst. Bot.
†E. M. Stoddard, B. S., Assoc. Bot.
†Barbara Wooding, B. S., Res. Tech.

Soils:

†C. L. W. Swanson, Ph. D., Soil Sci. in

†C. L. W. Swanson, Ph. D., Soil Sci. in charge.
†G. A. Bourbeau, Ph. D., Asst. Soil Sci.
†D. B. Downs, Res. Tech.
†J. F. Gamble, B. S., Res. Tech.
†H. G. M. Jacobson, M. S., Assoc. Soil Sci.
†H. A. Lunt, Ph. D., Assoc. Soil Sci.
†S. Schwartz, B. S., Res. Tech.

Miscellaneous:

†G. H. Ahlgren, Business Mgr.
†C. I. Bliss, Ph. D., Biometrician.
†H. C. Engelhardt, Farm Supt.
†Mrs. Ruth H. Giandonato, B. A., Libr.
†Amanda Quackenbush, B. Litt., Editor.

Substation:

Tobacco Laboratory, P. O., Windsor—
P. J. Anderson, Ph. D., Path. in charge.
A. B. Pack, Ph. D., Asst. Agron.
T. R. Swanback, M. S., Assoc. Agron.
C. E. Swanson, Res. Tech.

DELAWARE

School of Agriculture, the Agricultural Experiment Station, and the Agricultural Extension Service of the University of Delaware, Newark

*College faculty. †Station staff. ‡Extension staff.

*J. A. Perkins, Ph. D., President of University.

*A. P. Colburn, Ph. D., Provost of University.

*F. H. Squire, Ph. D., Dean of University.

*G. L. Schuster, M. S., Dean School of Agr.

†G. M. Worrilow, B. S., Dir. of Sta., Dir. of Ext. Service.

*C. J. Rees, Ph. D., Chair. Div. of Grad. Study.

†C. E. Grubb, C. E., Business Administrator.

Agronomy and Engineering (Agr.):

†‡C. E. Phillips, M. S., Prof. Agron.; Agron. *†G. L. Schuster, M. S., Prof. Agron.; Agron.

Agronomy and Engineering (Agr.)—Con.

tW. A. Calvert, B. S., Agr. Engin. †F. B. Collins, B. S., Asst. Agron.

Agronomy and Engineering (Agr.)-Continued

- *†L. J. Cotnoir, Jr., M. S., Asst. Prof. and *C. W. Hall, B. S., B. A. E., Asst. Prof. Agr.
 - Engin.
- †R. S. Lindsey, B. S., Res. Instr. Agron. †‡W. H. Mitchell, B. S., Asst. Res. Prof. and Asst. Ext. Prof. Agron.

Animal and Poultry Industry:

- *†E. F. Waller, D. V. M., Ph. D., Prof. Poul-try Husb.; An. Path. †R. J. Bacon, B. S., Res. Instr. An. and
- †R. J. Bacon, B. S., 1900.

 Poultry Indus.
 †T. A. Baker, Ph. D., Prof. An. Husb.;

 Pairu Husb.
- *†T. A. Baker, Ph. D., Prof. An. Husb.;
 Dairy Husb.

 ‡J. F. Gordy, B. S., Ext. Poultryman.
 †A. F. Kish, M. S., Res. Instr. Poultry Husb.

 ‡S. L. McHenry, B. S., Asst. Ext. Poultry
- man.
 †C. W. Mumford, Asst. Poultry Husb.
 *T. D. Runnels, M. S., Assoc. Prof. Poultry
- *T. D. Runners, M. S., Assoc. Res. Prof., Husb.

 *†W. C. Skoglund, M. S., Assoc. Res. Prof., Dir. Short Course.

 *†A. E. Tomhave, M. S., Prof. An. Husb.; Res. Poultryman and An. Husb.

 ‡D. J. Young, B. S., Dairy Spec.

Chemistry:

- †G. L. Baker, M. S., Res. Chem.
 †G. M. Gilligan, M. S., Assoc. Chem.
 †M. S. Maltenfort, B. Ch. E., Asst. Res.
 Prof. Chem.
 †G. R. Waller, Jr., Res. Asst.
 †C. W. Woodmansee, M. S., Asst. Chem.

Editorial:

- †‡G. H. Axinn, B. S., Editor. ‡N. Joanne Ouweneel, M. S., Asst. Editor.

Education (Agr.):

*R. W. Heim, A. M., Prof. Voc. Agr. Ed. *P. M. Hodgson, M. A., Asst. Prof. Voc. Agr. Ed.

Entomology:

- †‡L. A. Stearns, Ph. D., Prof. Ent.; Ent. *†W. A. Connell, M. S., Assoc. Prof. and Assoc. Ent. †R. F. Darsie, Ph. D., Asst. Res. Prof. †‡Donald MacCreary, M. S., Assoc. Ent. †H. E. Milliron, Ph. D., Asst. Res. Prof.

Extension Administration:

‡G. M. Worrilow, B. S., Dir. ‡J. F. Gordy, B. S., County Agt. Leader.

Extension Administration-Continued

M. Gertrude Holloway, B. S., County Home Dem. Leader. ‡Mary J. Lee, B. S., 4-H Club Spec.

Home Economics:

- *Irma L. Ayers, M. S., Dean of School and Prof. Home Econ.

 ‡Esther S. Alderman, B. S., Urban Spec. in Home Econ.

 *Hazel J. Baker, M. S., Instr. Home Econ.

 *Betty Faulconer, B. S., Lect. in Home Econ.

 ‡M. Gertrude Holloway, B. S., Nutr.

 *Elizabeth G. Kelly, M. A., Asst. Prof. Home Econ.
- Econ. Ruth Pearce, M. S., Clothing Spec. Louise R. Whitcomb, B. S., Home Mgt. Spec.

Horticulture:

- *†E. P. Brasher, M. S., Prof. Hort.; Hort. *†L. R. Detjen, M. S., Prof. and Assoc. Hort. *†C. W. Hitz, Ph. D., Assoc. Prof. and Assoc. Hort.
- *†E. M. Rahn, M. S., Asst. Prof. and Asst. Hort. ‡R. F. Stevens, Ext. Hort. †J. R. Wheatley, B. S., Asst. Hort.

- Marketing and Farm Management: *†R. O. Bausman, Ph. D., Prof. Mktg. and
- *†R. O. Bausman, Fh. D., Aroj. Marg. Farm Mgt.

 *†S. A. Dum, Ph. D., Assoc. Prof. Agr. Econ.

 ‡W. T. McAllister, M. S., Mktg. Spec.

 *†S. T. Rice, Ph. D., Asst. Prof. Agr. Econ.

Plant Pathology:

- *†‡J. W. Heuberger, Ph. D., Prof. Plant Path.:
- †‡R. S. Cox, Ph. D., Assoc. Prof.
 †‡R. S. Cox, Ph. D., Assoc. Prof.
 ††H. W. Crittenden, M. S., Asst. Prof. and
 Asst. Plant Path.
 *R. A. Hyre, Ph. D., Collab. in Plant Path.
 ††P. L. Poulos, B. S., Res. Instr. Plant Path.

Miscellaneous:

*†‡Mrs. Florence E. Fader, Secy. †‡Harriet K. Ferguson, Libr.

Substation:

- Georgetown-
- W. C. Lucas, Jr., B. S., Asst. Ivaria, Husb. K. C. Seegar, B. S., Asst. Poultry Path. E. F. Turner, Foreman, Hort.

DELAWARE STATE COLLEGE, Dover

- *Agricultural faculty.
- *O. J. Chapman, Ph. D., President. *J. C. Finney, M. A., Ed. D., Dean.
- *Lillian M. Gary, B. S. in L. S., Libr. *Davidene Harris, M. S., Asst. Prof. Foods
- *Mrs. Ruth M. Laws, M. S., Assoc. Prof. Home Econ.

 *J. A. McKenzie M. C.
- A. McKenzie, M. S., Asst. Prof. Agr. Econ.
- *Alphonse McMeekin, M. A., Assoc. Prof. Agron. and Hort.
 *Wayman Scott, B. S., Instr. in Agr.
- *Mrs. Courtney W. Stevenson, B. S., Instr.
- *U. S. Washington, Ed. M., Asst. Prof. Agr.
- *R. T. Waymer, M. S., Assoc. Prof. An. Husb.
 *Harriet R. Williams, M. S., Assoc. Prof. Chem
- *Mrs. Minnie M. Wynder, B. S., Instr. Home Econ.

FLORIDA

College of Agriculture, Agricultural Experiment Station and Agricultural Extension Service of the University of Florida, Gainesville

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence.

*J. H. Miller, A. M., Ph. D., Litt. D., LL. D., President of University.

*J. W. Reitz, Ph. D., Provost for Agr.

†W. M. Fifield, M. S., Dir. of Sta.

‡H. G. Clayton, M. S., Dir. of Agr. Ext. Service.

*C. V. Noble, Ph. D., Dean Coll. of Agr.

†J. R. Beckenbach, Ph. D., Assoc. Dir. of Sta.

†L. O. Gratz, Ph. D., Asst. Dir.—Res.

*†‡G. F. Baughman, M. S., Business Mgr.

Agronomy:

- *P. H. Senn, Ph. D., Head of Coll. Dept. †F. H. Hull, Ph. D., Head of Sta. Dept. †F. W. Bledsoe, Ph. D., Asron. †W. A. Carver, Ph. D., Assoc. Agron. †W. A. Carver, Ph. D., Asst. Agron., Tobacco. †Robert Gilman, B. S., Asst. in Agron. †M. C. Grennell, B. S., Asst. in Agron. *C. M. Hampson, M. S., Asst. or Prof. Agron. *C. M. Hampson, M. S., Asst. Prof. Agron. †H. C. Harris, Ph. D., Agron. †C. C. Helms, B. S. A., Asst. Agron. (P. O., Leesburg). †J. R. Henderson, M. S., Agron. †E. S. Horner, Ph. D., Asst. Agron. †E. S. Horner, Ph. D., Asst. Agron. †G. B. Killinger, Ph. D., Agron. †D. D. Morey, Ph. D., Assoc. Agron. †C. E. Ritchey, M. S., Agron. (Coop. U. S. *P. D. A.).

- *§E. G. Rodgers, B. S., Instr. Agron.
 †A. T. Wallace, Ph. D., Asst. Agron.
 *J. M. Wofford, M. S., Instr. Agron.

Animal Husbandry and Nutrition:

- *†T. J. Cunha, Ph. D., Assoc. Prof. and Assoc. An. Husb.; Head of Dept.
 †Katherine M. Boney, B. S., Asst. Chem.
 *†G. K. Davis, Ph. D., Prof. An. Nutr.; An. Nutr.
 *†S. J. Folks, B. S. A., Asst. Prof. and Asst. An. Husb.
 †R. S. Glasscock, Ph. D., Prof. An. Husb.; An. Husb.

- † O. F. Goen, D. V. M., An. Husb. †J. A. McGregor, B. S. A., Asst. An. Indus. *†J. E. Pace, M. S., Asst. Prof. and Asst. An.
- Husb.
 *A. M. Pearson, Ph. D., Asst. Prof.
 †R. L. Shirley, Ph. D., Biochem.
 *H. D. Wallace, Ph. D., Asst. Prof.

Botany and Plant Pathology:

- **W. B. Tisdale, Ph. D., Head of Dept.
 †W. B. Tisdale, Ph. D., Asst. Plant Path.
 †C. W. Anderson, Ph. D., Asst. Plant Path.
 †Lillian E. Arnold, M. S., Asst. Bot.
 †A. N. Brooks, Ph. D., Plant Path. (P. O.,
 Lakeland).

 *W. R. Carroll, Ph. D., Prof. Bot.
 *M. D. Cody, M. A., Prof. Bot.
 *J. H. Davis, Ph. D., Prof. Bot.
 †Phares Decker, Ph. D., Plant Path.
 †A. H. Eddins, Ph. D., Plant Path.
 †A. H. Eddins, Ph. D., Plant Path.
 (P. O.,
 Hastings).
 *R. L. Emerson, Ph. D., Assoc. Prof. Bact.
 *E. S. Ford, Ph. D., Prof. Bot.
 †J. R. Large, M. S., Assoc. Plant. Path. (P.
 O., Monticello).
 †H. N. Miller, Ph. D., Asst. Prof. Bact.
 *J. H. Owen, Ph. D., Asst. Prof. Bact.
 *J. H. Owen, Ph. D., Asst. Prof. Plant Path.
 †G. K. Parris, Ph. D., Plant Path. (P. O.,
 Leesburg).

- Leesburg)
- *R. D. Powell, M. S., Asst. Prof. Bot. *G. F. Weber, Ph. D., Prof. Plant Path. *†Erdman West, M. S., Prof. Bot.; Mycol.

and Bot.

Chemistry (Agr.):

*A. P. Black, Ph. D., Head of Dept.

Dairy Husbandry and Manufactures:

- *†E. L. Fouts, Ph. D., Head of Dept. *†P. T. Dix Arnold, M. S. A., Asst. Prof. and Asst. Dairy Husb. *†R. B. Becker, Ph. D., Prof. Dairy Husb.;
- *†R. B. Becker, Ph. D., Prof. Dairy Husb.; Dairy Husb.

 † W. A. Krienke, M. S., Assoc. Prof. and Assoc. Dairy Tech.

 † S. P. Marshall, Ph. D., Assoc. Prof. and Assoc. Dairy Husb.

 † L. E. Mull, M. S., Asst. Dairy Tech.

 † C. W. Reaves, B. S. A., Dairy Husb.

 † H. H. Wilkowske, Ph. D., Asst. Prof. and Asst. Dairy Tech.

Economics (Agr.):

- *†‡H. G. Hamilton, Ph. D., Prof. Agr. Econ. and Head of Dept. †D. E. Alleger, M. S., Assoc. Agr. Econ. †D. L. Brooke, M. S., Assoc. Agr. Econ. *†M. A. Brooker, Ph. D., Prof. Agr. Econ.;
- *†M. A. Brooker, Ph. D., Prof. Agr. Econ.; Agr. Econ.; Agr. Econ.

 *A. L. French, Jr., M. Agr., Instr. Agr. Econ.

 *†R. E. L. Greene, Ph. D., Agr. Econ.

 *J. R. Greenman, B. S., Prof. Agr. Econ.

 *C. M. Hampson, M. S., Ext. Econ., Farm Mgt.

 †D. C. Kimmel, Ph. D., Mktg. Econ. (Coop. U. S. D. A.: P. O., Orlando).

 †H. W. Little, M. S., Asst. Agr. Econ.

 †J. B. Owens, Agr. Stat. (Coop. U. S. D. A.: P. O., Orlando).

 *F. W. Parvin, B. S., Ext. Assoc. Econ., Mktg. and Farm Mgt.

 †G. N. Rose, B. S., Assoc. Agr. Econ. (P. O., Orlando).

- Orlando).

- orlando).
 †Zach Savage, M. S., Assoc. Agr. Econ.
 †A. H. Spurlock, M. S., Assoc. Agr. Econ.
 †J. F. Steffens, Jr., B. S., Asst. Agr. Stat.
 (Coop. U. S. D. A.; P. O., Orlando).
 †D. E. Timmons, M. S., Ext. Econ.
 †J. C. Townsend, Agr. Stat. (Coop. U. S.
 D. A.: P. O., Orlando).

Editorial:

†‡J. F. Cooper, M. S., Editor. †‡Clyde Beale, A. B. J., Assoc. Editor. †‡Jasper Joiner, B. S. A., Asst. Editor.

*E. W. Garris, Ph. D., D. Sc., Prof. Agr. Ed. *W. T. Loften, M. A., Prof. Agr. Ed.

Engineering (Agr.):

- *Frazier Rogers, M. S., Head Prof. Agr.

- *France Rogers, M. S., Heau Froj. Ayr. Engin.
 *J. H. Arnett, B. S., Instr. Agr. Engin.
 *R. E. Choate, B. S., Asst. Prof. Agr. Engin.
 *J. M. Johnson, B. S., Ext. Agr. Engin.
 †J. M. Myers, B. S., Assoc. Agr. Engin.
 †A. M. Pettis, B. S., Ext. Farm Electrification Spec.
 *T. C. Skinner, M. S., Instr. Agr. Engin.

Entomology:

- †A. N. Tissot, Ph. D., Head of Sta. Dept.
 *J. T. Creighton, Ph. D., Head of Coll. Dept.
 †H. E. Bratley, M. S., Asst. Ent.
 ‡J. D. Haynie, B. S., Apteulturist.
 *L. A. Hetrick, M. S., Asst. Prof. Ent.

Entomology-Continued

†L. C. Kuitert, Ph. D., Asst. Ent.
*Milledge Murphey, B. S., Asst. Prof. Ent.
†A. M. Phillips, B. S., Assoc. Ent. (Coop.
U. S. D. A.: P. O., Monticello).
†F. A. Robinson, M. S., Asst. Apiculturist.
*A. J. Rogers, M. S., Asst. Prof. Ent.

Extension Administration:

†H. G. Clayton, M. S., Dir. †M. O. Watkins, M. Agr., Asst. to Dir. †Mrs. Edith Y. Barrus, Dist. Agt. (P. O., Tallahassee). †W. W. Brown, B. S., State 4-H Boys' Club

Agt. ‡J. N. Busby, B. S. A., Asst. State Boys' 4-H

Club Agt.

R. S. Dennis, B. S., Exec. Officer, P. M. A.

‡Ethyl C. Holloway, B. S., Dist. Agt. (P. O.,

Tallahassee).

tK. S. McMullen, M. Agr., Dist. Agt. tF. S. Perry, B. S., Dist. Agt. tAnna M. Sikes, M. A., Dist. Agt. (P. O.,

JANIA M. Sikes, M. A., Dist. Agt. (P. O., Tallahassee).

‡J. Lee Smith, Dist. Agt.

‡Ruth S. Lemmon, B. S. H. E., Asst. State Girls' 4-H Club Agt.

‡Lorene H. Stevens, B. S., State Girls' 4-H Club Agt. (P O., Tallahassee).

Forestry:

*H. S. Newins, Ph. B., M. F., Dir. and Head

Prof. For.
*S. L. Beckwith, M. S. F., Asst. Prof. Den-

*S. L. Beckwith, M. S. F., Asst. Prof. Dendrology.

*W. D. Brush, Ph. D., Instr. For.

*P. W. Frazer, B. S., M. F., Assoc. Prof. For.

*C. G. Geltz, M. S. F., Prof. Silviculture.

*E. W. Gemmer, M. S. F., Asst. Prof. For.

*T. G. Herndon, M. S. F., Instr. For.

*Clark Mathewson, M. S. F., Supt.

*J. W. Miller, Jr., B. S. F., Assoc. Prof. For.

*P. J. Moses, B. S., Instr. For.

‡L. T. Nieland, Ext. Furm For.

*C. W. Ralston, Ph. D., Asst. Prof. Silviculture.

culture.

*R. B. Smith, Ph. D., Assoc. Prof. Wood Technol. (Sta. Forest Ranger School, P. O., Lake City). *K. R. Swinford, B. S. F., Asst. Prof. For. *G. F. Weber, Ph. D., Prof. For. Path. *E. A. Zeigler, Sc. D., Prof. For. Mgt.

Home Economics:

†Ouida D. Abbott, Ph. D., Head of Sta. Dept. ‡Joyce Bevis, M. A. Clothing and Textile Spec. (P. O., Tallahassee). ‡Bonnie J. Carter, B. S., Ext. Home Im-

provement Agt.
†R. B. French, Ph. D., Biochem.
†Gladys Kendall, A. B., Home Indus. and
Mktg. Spec.
†Grace I. Neely, M. S., Ext. Asst. Econ.,
Food Conserv.

Horticulture:

†G. H. Blackmon, M. S., Head of Sta. Dept.

*H. S. Wolfe, Ph. D., Head of Coll. Dept.

*J. H. Brooks, Jr., M. S., Asst. Prof. Hort.

†R. A. Dennison, Ph. D., Assoc. Hort.

†R. D. Dickey, M. S., Asst. Hort.

†C. B. Hall, Ph. D., Asst. Hort.

†L. H. Halsey, B. S., Asst. Hort.

†F. S. Jamison, Ph. D., Hort.

†F. S. Lagasse, Ph. D., Hort. (Coop U. S. D. A.)

1F. S. Lagasse, Fh. D., Hore. (coop c. S. D. A.). 2F. P. Lawrence, B. S., Ext. Citriculturist. 2A. P. Lorz, Ph. D., Hort. 2E. N. McCubbin, Ph. D., Hort. (P. O., Hast-

tr. M. McCaubill, F. H. D., Hott. (1. c., Hasings).

‡F. E. Myers, M. Agr., Asst. Veg. Crop. Spec.

†V. F. Nettles, Ph. D., Asst. Hort.

†H. M. Reed, B. S., Chem.-Veg. Processing.

‡S. E. Rosenberger, M. Agr., Veg. Crop. Spec.

†R. H. Sharpe, M. S., Assoc. Hort.

*R. K. Showalter, M. S., Assoc. Hort.

Horticulture—Continued

*G. J. Stout, Ph. D., Prof. Hort. *J. V. Watkins, M. S., Assoc. Prof. Hort. *L. W. Zeigler, B. S., Asst. Prof. Hort.

Meteorology (Frost Forecasting Service):

†W. O. Johnson, B. A., Met. in charge (P. O., Lakeland).

Poultry Husbandry:

*†‡N. R. Mehrhof, M. Agr., Head of Dept.
*†J. C. Driggers, Ph. D., Assoc. Prof. and
Assoc. Poultry Husb.

‡J. S. Moore, M. S. A., Ext. Poultryman.

Soils:

*†‡F. B. Smith, Ph. D., Head of Dept.
†W. G. Blue, Ph. D., Asst. Biochem.

*†R. E. Caldwell, M. S., Asst. Prof. Soils;
Asst. Soil Surveyor.

†V. W. Carlisle, B. S., Asst. Soil Surveyor.

*†R. A. Carrigan, Ph. D., Prof. Soils;

Biochem.
†O. E. Cruz, B. S. A., Asst. Soil Surveyor.
†V. W. Cyzycki, B. S., Asst. Soil Surveyor.
*R. B. Forbes, M. S., Interim Asst. Prof. Soils.

Soils.

Nathan Gammon, Ph. D., Soils Chem.

*L. C. Hammond, Ph. D., Asst. Prof. Soils.

†‡J. R. Henderson, M. S., Soil Technol.

†R. G. Leighty, B. S., Asst. Soil Surveyor.

*W. W. McCall, M. A., Asst. Prof. Soils.

†H. S. McLendon, B. A., Est. Soil Conserv.

†J. R. Neller, Ph. D., Soils Chem.

*R. T. Rothwell, B. S., Instr. Soils.

*B. O. Spinks, B. S., Asst. Prof. Soils.

*†G. D. Thornton, Ph. D., Prof. Soils; Soil Microbiol.

†G. D. Thornton, Fh. D., Troj. 2010, Microbiol.
†G. M. Volk, Ph. D., Soils Chem.
†J. H. Walker, M. S. A., Asst. Soil Sur-

veyor. †H. W. Winsor, B. S., Asst. Chem.

Veterinary Science:

*†D. A. Sanders, Ph. D., Head of Dept.
†E. G. Batte, D. V. M., Assoc. Parasit.
*†M. W. Emmel, D. V. M., Prof.; Vet.
†C. F. Simpson, D. V. M., Assoc. Vet.
†L. E. Swanson, D. V. M., Parasit.
*†G. B. Van Ness, D. V. M., Assoc. Prof. and

Assoc. Poultry Path.

Miscellaneous:

†Ida K. Cresap, Libr. †‡R. L. Bartley, B. S., Admin. Mgr. †G. R. Freeman, B. S., Supt. Field Opera-

Branch Stations:

Central Fla. Expt. Sta., P. O., Sanford— R. W. Ruprecht, Ph. D., Vice Dir. in

charge. George Swank, Jr., Ph. D., Asst. Plant

George Swank, Jr., Ph. D., Asst. Ptant Path.
P. J. Westgate, Ph. D., Assoc. Hort.
B. F. Whitner, Jr., B. S., Asst. Hort.
J. W. Wilson, Sc. D., Ent.
Citrus Expt. Sta., P. O., Lake Alfred—
A. F. Camp, Ph. D., Vice Dir. in charge.
J. C. Bowers, M. S., Asst. Chem.
E. J. Deszyck, Ph. D., Assoc. Hort.
E. P. Ducharme, M. S., Assoc. Plant Path.
J. K. Enzor, Jr., B. S., Asst. in Ent.-Path.
L. W. Faville, Ph. D., Asst. Chem.
Francine E. Fisher, M. S., Asst. Plant
Path.

Francine E. Fisher, M. S., Asst. Plant Path.
H. W. Ford, Ph. D., Asst. Hort.
J. T. Griffiths, Ph. D., Assoc. Ent.
Rudolph Hendrickson, B. S., Asst. Chem.
I. H. Holtzberg, B. S., Asst. in Ent.-Path.
J. W. Kesterson, M. S., Assoc. Chem.
L. C. Knorr, Ph. D., Assoc. Histol.
C. D. Leonard, Ph. D., Assoc. Hort.
W. T. Long, M. S. A., Asst. Hort.
H. D. Merwin, Ph. D., Assoc. Chem.,
Fert.
R. W. Olsen, B. S., Biochem.

Branch Stations-Continued

Citrus Expt. Sta.—Continued
R. M. Pratt, Ph. D., Assoc. Ent.-Path.
D. S. Prosser, Jr., B. S., Asst. Hort.
H. J. Reitz, M. S., Hort.
A. H. Rouse, M. S., Assoc. Chem.
W. A. Simanton, Ph. D., Ent.
J. W. Sites, Ph. D., Hort.
C. R. Stearns, Jr., B. S., Assoc. Chem.
(Insects). (Insects).

H. O. Sterling, B. S., Asst. Hort.
R. F. Suit, Ph. D., Plant Path.
W. L. Thompson, B. S., Ent.
K. C. Townsend, B. S., Asst. in Ent. Path. Path.
B. P. Tuthill, B. S., Asst. in Chem.
R. K. Voorhees, Ph. D., Assoc. Hort.
(P. O., Ft. Pierce).
I. W. Wander, Ph. D., Soils Chem.
J. B. Weeks, B. S., Asst. in Ent.-Path.
F. W. Wenzell, Jr., Ph. D., Chem.
A. E. Willson, B. S., Assoc. Biochem.
Everglades Expt. Sta., P. O. Belle Glade—
R. V. Allison, Ph. D., Vice Dir. in charge.
Thomas Bregger, Ph. D., Sugarcane
Physiol Thomas Bregger, Ph. D., Sugarcane Physiol.
T. C. Erwin, Asst. Chem.
W. T. Forsee, Ph. D., Chem.
W. G. Genung, B. S., Asst. Ent.
D. B. Gibb, M. E., Fiber Tech.
K. A. Harris, B. S., Asst. Agr. Engin.
N. C. Hayslip, B. S., Assoc. Ent. (P. O., Ft Pierce) N. C. Hayslip, B. S., Assoc. Ent. (P. O., Ft. Pierce).
W. A. Hills, M. S., Assoc. Hort.
W. D. Hogan, M. S., Ass. Plant Path.
R. W. Kidder, M. S., Ass. C. An. Husb.
J. W. Randolph, M. S., Agr. Engin.
C. C. Seale, D. I. C. T. A., Assoc. Agron.
D. W. Smith, B. S., Asst. Chem.
W. N. Stoner, Ph. D., Asst. Plant Path.
W. H. Thames, M. S., Asst. Ent.
E. A. Wolf, M. S., Asst. Hort.
North Fla. Expt. Sta., P. O., Quincy—
J. D. Warner, M. S., Vice Dir. in Charge.
F. S. Baker, B. S., Asst. An. Husb.

Branch Stations-Continued

nch Stations—Continued

North Fla., Expt. Sta.—Continued

W. H. Chapman, M. S., Assoc. Agron.
R. R. Kincaid, Ph. D., Plant Path.
R. W. Lipscomb, M. S., Assoc. Agron.
(P. O., Marianna).

W. C. Rhoades, M. S., Ent.
R. L. Smith, M. S., Assoc. Agron. (P. O.,
Bow 387, Atmore, Ala.).
L. G. Thompson, Jr., Ph. D., Soils Chem.
R. W. Wallace, B. S., Assoc. Agron.
(P. O., Monticello).
T. S. Webb, B. S., Asst. in Agron.
J. B. White, B. S., Assoc. Agron. (P. O.,
Chipley). J. B. White, B. S., Assoc. Agron. (P. O., Chipley).

Range Cattle Expt. Sta., P. O., Ona—
W. G. Kirk, Ph. D., Vice Dir. in charge.
E. M. Hodges, Ph. D., Agron.
D. W. Jones, B. S., Asst. Soil Technol.
Subtropical Expt. Sta., P. O., Homestead—
G. D. Ruehle, Ph. D., Vice Dir. in charge.
Milton Cobin, B. S., Assoc. Hort.
R. A. Conover, Ph. D., Plant Path.
R. W. Harkness, Ph. D., Asst. Chem.
F. B. Lincoln, Ph. D., Hort.
J. L. Malcolm, Ph. D., Assoc. Soils Chem.
D. O. Wolfenbarger, Ph. D., Ent.
West Central Fla. Expt. Sta., P. O., Brooksville—
William Jackson, B. S., An. Husb. in William Jackson, B. S., An. Husb. in charge (Coop. U. S. D. A.).
West Fla. Expt. Sta. P. O. Milton—
C. E. Hutton, Ph. D., Vice Dir. in Vice Dir. in Charge.
H. W. Lundy, B. S., Assoc. Agron.
Vegetable Crop Lab., P. O., Bradenton—
E. L. Spencer, Ph. D., Soils Chem. in b. L. Spencer, Fh. D., Sows Chem. in charge.
D. S. Burgis, M. S., Asst. Hort.
W. L. Cowperthwaite, Ph. D., Asst.
Hort. D. G. A. Kelbert, Assoc. Hort. E. G. Kelsheimer, Ph. D., Ent. R. O. Magie, Ph. D., Plant Path. J. M. Walter, Ph. D., Plant Path.

Florida Agricultural and Mechanical College for Negroes, Tallahassee

- *Agricultural faculty. ‡Extension staff.
- *G. W. Gore, Jr., Ph. D., President. *H. M. Efferson, M. S., Dean of Admin. *C. E. Walker, Ph. D., Dir. of Agr.

†Hila M. Andrews, B. S., Itinerant Teacher Trainer for Home Econ.
*Clinita Arnsby, M. S., Instr. Clothing, Foods and Nutr.
*W. L. Bate, M. S., Asst. Prof. Poultry Husb.

- *Huso.
 *Paula I. Bickham, B. S., Home Mgt. and Child Development.

 ‡Floy L. Britt, B. S., Dist. Home Dem. Agt.
 *E. T. Brooks, B. S., Instr. Agron. and Soils.
- Soils.
 *D. C. Carter, B. S., Instr. An. Husb.
 *G. W. Conoly, M. S., Asst. Prof. and Resident Teacher Trainer in Voc. Agr.
 *D. L. Foster, Ph. D., Prof. Agron.
 *Carrie M. Garnes, M. A., Asst. Prof. Foods and Institution Mgt.
 *Dorothy W. Graham, M. A., Asst. Prof. Home Econ.
 *L. A. Croshem B. S. Dist. Ext. Agt.

- J. A. Gresham, B. S., Dist. Ext. Agt.

- *E. L. King, M. S., Asst. Prof. Econ. *Mrs. Marie M. King, M. S., Instr. Clothing
- *M. Marie M. King, M. S., Inst. Country and Textiles. *E. Kinsler, B. S., Instr. in Farmshop. *T. T. Lewis, M. S., Asst. Prof. Hort. ‡L. A. Marshall, M. S., Asst. Prof. and State Itinerant Teacher Trainer for Voc.
- *Willie P. Porter, R. N., B. A., Supvr. Hospital.
- *F. Lois Robeson, B. S., Instr. Foods and Clothing. *Nathaniel Saylor, M. S., Asst. Prof. in

- Datry.
 *J. L. Thomas, M. S., B. S. L. S., Assoc. Prof. and Head Libr.
 *Moses Vaughn, Ph. D., Prof. Hort.
 *Geneva J. Wheeler, M. S., Asst. Prof. and Dir. Home Econ.

GEORGIA

College of Agriculture, Schools of Forestry, Home Economics, and Veterinary Medicine, University of Georgia, Athens

*College faculty. †Station staff. \$Leave of absence. ‡Extension staff.

- *O. C. Aderhold, Ph. D., President of University.

 ††C. C. Murray, Ph. D., Dean Coll. of Agr., Dir. of Expt. Stas., Dir. of Agr. Ext.

 †W. S. Brown, B. S., Assoc. Dir. of Agr. Ext.

 *P. W. Chapman, Sc. D., Assoc. Dean of Instr.
 - †G. H. King, M. S., Assoc. Dir. of Expt. Stas.

 *T. J. Jones, Ph. D., Dean School of Vet. Med.

 *D. J. Weddell, M. S., Dean School of For.

 *Pauline P. Wilson, Ph. D., Dean School of Home Econ.

 †E. B. Browne, Ph. D., Resident Dir., Coll. Expt. Sta.

Agronomy:

- *W. O. Collins, B. S., Prof. and Head of

- *†J. F E. Giddens, Ph. D., Dir. Soil Testing Service.
- †G. F. Henry, M. S., Farm Foreman. ‡H. A. Inglis, M. S., Ext. Agron. Seed Cer-
- tification.

- tification.

 ‡J. R. Johnson, B. S., Ext. Agron.

 ‡Archie Langley, B. S., Assoc. Agr. Stat.

 (Coop. U. S. D. A.).

 †H. D. Loden, M. S., Assoc. Prof. Agron.

 †H. D. Morris, Ph. D., Assoc. Prof. Agron.

 †H. F. Perkins, B. S., Res. Asst. Agron.

 ‡J. B. Preston, B. S., Asst. Ext. Agron.

 (P. O. Titton). †H. F. PERKIIS, D. S., Res. Asst. Ayron.

 ‡J. B. Preston, B. S., Asst. Ext. Agron.
 (P. O., Tifton).

 †Matthias Stelly, Ph. D., Prof. Agron.
 ‡E. H. Thomas, B. S., Ext. Soil Conserv.
 †R. L. Wehunt, M. S., Res. Asst. Agron.
 ‡E. C. Westbrook, M. S., Cotton and To-
- bacco Spec.

Animal Husbandry:

- *†‡A. E. Cullison, Ph. D., Prof. and Head of Dept.; Chair. of Div.¹
 †C. E. Bell, Jr., B. S., Ext. Livestock Spec.
 *J. L. Carmon, M. S., Instr. An. Husb.
 †1. A. Dyer, Ph. D., Asst. Prof. An. Husb.
 †D. A. Hart, B. S., Herdsman and Foreman.
 ‡M. P. Jarnagin, D. Sc., Ext. An. Husb.
 *J. H. Thomason, M. S., Asst. Prof. An. Husb.
 *SE P. Wagren, M. S. Asst. Prof. An. Husb.
 - *§E. P. Warren, M. S., Asst. Prof. An. Husb. ‡R. O. Williams, B. S., Ext. Livestock Spec. (P. O., Tifton).

Botany:

- *†J. J. Westfall, Ph. D., Prof. and Head of Dept.

 *†E. G. Beck, Ph. D., Assoc. Prof. Bot.

 *†W. M. Carlton, Ph. D., Asst. Prof. Bot.

 *†W. H. Duncan, Ph. D., Assoc. Prof. Bot.

 *†D. L. Jacobs, Ph. D., Asst. Prof. Bot.

 *†C. C. Wilson, Ph. D., Assoc. Prof. Bot.

Chemistry:

- *A. W. Scott, Ph. D., Prof. and Head of
- Dept.
 *H. T. Coggin, Ph. D., Assoc. Prof. Chem.
 *C. N. Wilder, M. S., Assoc. Prof. Agr. Chem.

Dairy Husbandry:

- *†#H. B. Henderson M. S., Prof. and Head of Dept.; Chair. of Div.
 *F. W. Bennett, Ph. D., Assoc. Prof. Dairy Husb.
 ††J. F. Deal, B. S., Asst. Prof. Dairy Husb.
 ‡J. W. Fitch, B. S., Est. Dairyman.
 †J. E. McGowan, B. S., Asst. Ext. Dairyman.

Dairy Husbandry-Continued

- *†S. H. Morrison, Ph. D., Assoc. Prof. Dairy
- *†J. J. Sheuring, Ph. D., Assoc. Prof. Dairy Husb. *†J. J. Sheuring, Ph. D., Assoc. Prof. Dairy Husb. *†S. J. Speck, M. S., Asst. Prof. Dairy Husb. ‡H. K. Welch, Jr., B. S., Ext. Dairyman.

Economics (Agr.):

- *†\$J. W. Fanning, M. S., Ext. Econ., Farm Mgt.; Chair. of Div.\text{?}

 *J. W. Firor, M. S., Prof. and Head of Dept. †

 *C. J. Bryant, B. S., Ext. Econ. Mktg. Spec. †

 *W. C. Carter, B. S., Ext. Econ., Mktg. †

 *C. G. Garner, B. S., Ext. Econ., Mktg. †

 *C. G. Garner, B. S., Ext. Econ., Mktg. †

 *W. A. King, B. S., Ext. Econ., Farm Mgt. †

 *R. E. Proctor, Ph. D., Prof. Agr. Econ. *

 *W. S. Rowan, M. S., Asst. Prof. Agr. Econ. *

 *Econ. **Econ.
 - Econ ‡E. T. Shellhorse, B. S., Ext. Econ., Farm Mgt.
 - Kenneth Treanor, B. S., Ext. Econ., Farm
 - Mgt. ‡H. A. White, M. S., Ext. Coop. Agt., Farm Mgt.

Editorial and Publications:

- ‡O. B. Copeland, B. S., Editor. ‡V. E. Adams, B. S., Assoc. Editor. ‡J. P. Carmichael, A. B. J., Assoc. Editor. ‡Kate M. Cobb, Illustrator. ‡J. A. Smith, B. S., Assoc. Editor, Visual Ed. ‡R. D. Stephens, B. S., Assoc. Editor, Radio.

Education:

- *R. H. Tolbert, M. S. Ed., Assoc. Prof. Agr. Ed. and Actg. Head of Dept.

 *J. G. Bryant, M. Ed., Asst. Prof. Agr. Ed.

 *A. O. Duncan, M. S., Assoc. Prof. Agr. Ed.

 *R. V. Neal, B. S., Asst. Prof. Agr. Ed.

 *G. L. O'Kelley, Jr., M. S. Ed., Asst. Prof.
- Agr. Ed.

Engineering (Agr.):

- *†‡R. H. Driftmier, M. S., Prof. and Head of Dept.; Chair. of Div.

 †A. P. Barnett, B. S., Assoc. in Expt. Sta. (SCS; Coop. U. S. D. A.).

 ‡R. G. Bennett, B. S., Ext. Agr. Engin.

 †C. W. Brockseker, Tech. Assoc. in Expt. Sta. (BPISAE; Coop. U. S. D. A.).

 *R. H. Brown, M. Ed., Assoc. Prof. Agr. Engin.

 - *R. H. Brown, M. Eu., Assoc. 1707. g. Engin.

 †W. M. Bruce, B. S., Assoc. in Expt. Sta. (BPISAE; Coop. U. S. D. A.).

 †J. R. Carreker, M. S., Res. Prof. (SCS: Coop. U. S. D. A.).

 †G. L. Chavous, B. S., Res. Asst.

 *Carlisle Cobb, Jr., B. S., Asst. Prof. Agr. Engin.
- ‡P. A. Crawford, Jr., B. S., Ext. Agr. Engin.

 *W. N. Danner, Jr., M. S., Prof. Agr. Engin.

 *\$L. O. Drew, M. S., Assoc. Prof. Agr. Engin.

 ‡J. F. Forehand, B. S., Ext. Agr. Engin.

 †W. E. Garner, B. S., Res. Asst. Prof.

¹ Division indicates comparable units at all locations in system.

Engineering (Agr.) - Continued

- *R. R. Harris, M. Ed., Asst. Prof. Agr. Engin.
- *G. E. Hunderson, B. S., Prof. Agr. Engin.
 *W. E. Hudson, M. S., Prof. Agr. Engin.
 ‡G. I. Johnson, B. S., Est. Agr. Engin.
 *†D. T. Kinard, M. S., Res. Assoc. Prof. Agr.

- †D. T. Kinard, M. S., Res. Assoc. Proj. Ayr. Engin.
 †W. B. Land, B. S., Res. Asst. (SCS: Coop. U. S. D. A.).
 *J. R. Lyday, B. S., Instr. Agr. Engin.
 †R. J. McCraney, B. S., Res. Asst.
 *C. E. Rice, M. S., Assoc. Prof. Agr. Engin.
 †J. W. Simons, M. S., Res. Prof. (BPISAE: Coop. U. S. D. A.).
 †L. L. Smith, B. S., Assoc. Expt. Sta. (BPISAE: Coop. U. S. D. A.).
 *C. E. Turner, B. S., Instr. Agr. Engin.
 †H. D. White, M. S., Res. Prof. Agr. Engin.

Entomology:

*†H. O. Lund, Ph. D., Prof. Ent. and Head of Dept. ‡W. E. Neville, B. S., Bee Culture Spec.

Extension Administration:

- ‡C. C. Murray, Ph. D., Dir.
 ‡W. S. Brown, B. S., Assoc. Dir.
 ‡L. I. Skinner, B. S., Asst. Dir.
 ‡T. L. McMullan, B. S., Admin. Asst.
 ‡R. E. Smith, B. S., Admin. Asst.
 ‡Lufine Collier, B. S., State Home Dem.

- Agt.

 ‡W. A. Sutton, B. S., State Leader 4-H
 Clubs.

 ‡L. R. Dunson, B. S., Asst. State Leader
 4-H Clubs.

 ‡Mrs. Martha Harrison, B. S., Asst. State
 Leader 4-H Clubs.

 ‡R. J. Richardson, B. S., Asst. State Leader
 4-H Clubs (P. O., Tifton).

 ‡Elizabeth Zellner, B. S., Asst. State 4-H
 Leader.

- Elizabeth Zelmer, B. S., Asst. state Leader.

 Leonora Anderson, B. S., Dist. Agt.

 Ida L. Bell, B. S., Dist. Agt.

 S. G. Chandler, B. S., Dist. Agt.

 Alice Drake, B. S., Dist. Agt.

 L. W. Eberhardt, B. S., Dist. Agt.

 Luckey Morgan, B. S., Dist. Agt.

 Luckey Ross, B. S., Dist. Agt.

 Melba Sparks, B. S., Dist. Agt.

 L. S. Watson, B. S., Dist. Agt.

 L. C. Westbrook, B. S., Dist. Agt.

Food Technology:

- *W. C. Mills, B. S., Assoc. Prof. and Actg.
 Head of Dept. J. Powers, Ph. D., Assoc. Prof. Food
- *†J. J. r. Technol. *Ruth Sane, M. S. Food Technol.

Forestry:

‡W. L. Chapman, B. S., Asst. Ext. For. (P. 0., Tifton).
 ‡C. D. Dyer, B. S., Ext. For. (P. 0., Tifton).

Forestry, School:

- *†D. J. Weddell, M. S., Prof. and Dean of School.

- School.

 *G. N. Bishop, M. S. F., Prof. For.

 *†W. A. Campbell, Ph. D., Path. (Coop. U. S. D. A.).

 *B. F. Grant, M. S., Prof. For.

 *L. A. Hargreaves, Jr., M. S., Instr. For.

 *L. W. R. Jackson, Ph. D., Prof. For.

 *J. H. Jenkins, M. S., Visiting Instr. For.

 *†A. E. Patterson, M. S., Prof. For.

 *A. C. Worrell, M. F., Asst. Prof. For.

 *B. Zak, M. S., Junior Path. (Coop. U. S. D. A.). D. A.).

Home Economics:

†‡Lurline Collier, B. S., State Home Dem. Agt.; Chair. of Div.

Home Economics-Continued

- ‡Nellie C. Boyd, M. S., Ext. Nutr. ‡Mrs. Ruth T. Broach, B. S., Food Preser-vation Spec. ‡Willie V. Dowdy, B. S., Ext. Spec. (Home
- Improvement) Lucile Higginbotham, B. S., Ext. Clothing Spec
- *Katherine Lanier, B. S., Food Preservation
- Spec.

 †Mildred Ledford, M. S., Home Indus. Spec.

 †Susan Matthews, M. A., Ext. Nutr.

 †Martha I. McAlpine, B. S., Child Development and Parent Ed. Spec.

Home Economics, School:

- *Pauline P. Wilson, Ph. D., Prof. and Dean of School.
 *†Mrs. Maude P. Hood, Ph. D., Prof. Foods and Equip; Chair. of Res., School of Home Econ.
 *Mrs. L. R. Alexander, M. S., Assoc. Prof. Institutional Mgt.
 *†Mrs. Mary Anderson, B. S., Instr. Home Econ. and Res. Tech.
 *da E. Armstrong, M. S., Asst. Prof. Clothing and Teatiles
 *†Mrs. Margaret H. Blair, M. A., Prof. Clothing and Textiles.
 *Noble S. Dooly, B. S., Instr. Child Development.

- *Margaret Dykes, M. S., Instr. Unita Development.

 *Margaret Dykes, M. S., Asst. Prof. Nutr. and Institutional Mgt.

 *Mary I. Hicks, M. A., Assoc. Prof. Clothing and Teatiles.

 *Marion F. Jones, M. S., Asst. Prof. Child Development and Res. Asst.

 *Martha L. LaBoon, M. S., Instr. Child Development.

 *Kathryne M. McCraney, B. S., Lab. Instr. Child Development.

 *Margaret E. McPhaul, M. A., Asst. Prof. Child Development

 *Legnora Mirone, Ph. D., Assoc. Prof. Nutr.

 *Mrs. Pearl C. Moon, M. A., Assoc. Prof. Home Mgt.

 *Catherine L. Newton, M. A., Prof. Foods and Nutr.

 *†I. V. Sperry, Ed. D., Prof. Family Develop-
- *†I. V. Sperry, Ed. D., Prof. Family Development
- *†Doris W. Thompson, B. S., Res. Tech.
 *Charlotte O. Tuck, B. S., Asst. Prof. Home
- *†Marion S. Walker, M. S., Asst. Prof. House-hold Equip. and Res. Asst.

Horticulture:

- *†‡F. E. Johnstone, Ph. D., Prof. and Head of Dept.; Chair of Div.¹

 *†R. A. Bowden, M. S., Asst. Prof. Hort.

 ‡G. H. Firor, B. S., Ext. Hort.

 *R. L. Keener, M. S., Prof. Hort.

 *T. H. McHatton, Sc. D., Prof. Hort.

 ‡Elmo Ragsdale, M. S., Ext. Hort.

Landscape Architecture:

- *†‡H. B. Owens, M. A., Prof. and Head of Dept.; Chair. of Div.¹ *W. V. Barton, B. S., Instr. Landsc. Arch. *R. B. Taylor, B. S., Asst. Prof. Landsc.

 - *B. E. Wigginton, M. L. A., Prof. Landsc. Arch.

Plant Pathology and Plant Breeding:

- *†‡J. H. Miller, Ph. D., Prof. and Head of Dept.; Chair. of Div.¹ *†E. B. Browne, Ph. D., Assoc. Prof. Plant
- *†E. B. Browne, Pn. D., Assoc. Prof. Plant Path. *†G. E. Thompson, Ph. D., Assoc. Prof. Plant Path.

Poultry Husbandry:

*†‡R. S. Wheeler, Ph. D., Prof. and Head of Dept.; Chair. of Div. 1

¹ Division indicates comparable units at all locations in system.

Poultry Husbandry-Continued

- †H. W. Bennett, B. S., Ext. Poultryman.

 †A. F. Gannon, M. S., Ext. Poultryman.

 †\$\frac{1}{2}\text{Edmund Hoffmann}, Ph. D., Assoc. Prof. Poultry Husb.

 †\$\frac{1}{2}\text{T. M. Huston, M. S., Asst. Prof. Poultry Husb.}

 †\$J. F. Mauldin, B. S., Ext. Poultry Mktg.

 - Spec. ‡B. E. Welborn, B. S., Asst. Poultry Mktg. Spec.

Veterinary Medicine, School:

- *†T. J. Jones, D. V. M., Ph. D., Dean of School.
- *†A. L. Kleckner, Ph. D., Prof. and Head of Vet. Hyg.; Dir. of Vet. Res. *D. R. Burley, D. V. M., V. S., Assoc. Prof.
- Path.
- *W. G. Cook, D. V. M., Asst. Prof. Anat. and Histol.
- *†D. E. Cooperrider, D. V. M., M. S., Assoc. Prof. Path. *L. T. Crimmins, D. V. M., Asst. Prof. Path.
- and Parasit.
- *C. M. Davis, D. V. M., Asst. Prof. Clinics and Med. *C. C. Ellis, D. V. M., Ph. D., Prof. of Poul-
- try Diséases.
 *†J. W. Foster, Ph. D., Asst. Prof. Vet. Hyg.

‡A. F. Darden, B. S., Ext. Analyst. ‡M. L. Van Winkle, M. S., Ext. Recreation Spec.

Veterinary Medicine, School-Continued

*†M. P. Hines, D. V. M., M. F. H., 2000. 1.07.

Vet. Hyg.

*W. F. Jackson, D. V. M., M. S., Assoc. Prof.

Vet. Path.

*A. B. Kamine, Ph. G., D. V. M., Assoc.

Prof. Physiol. and Pharmacol.

*†Walter Kornfeld, M. S., Asst. Prof. Physiol.

and Pharmacol.

*W. A. Mackenzie, D. V. M., Asst. Prof.

Clinics and Med.

*J. T. Mercer, D. V. M., Asst. Prof. Clinics
and Med.

*J. T. Mercer, D. V. M., Asst. Prof. Clinics and Med.

*W. F. McLendon, D. V. M., Prof. and Head of Clinics and Med.

*J. R. Palmer, D. V. M., Asst. Prof. Clinics and Med.

*†P. L. Piercy, D. V. M., Prof. and Head of Physiol. and Pharmacol.

*J. R. Saunders, D. V. M., Prof. Surg.

*E. D. Stoddard, D. V. M., Assoc. Prof. Vet. Hua

*†E. F. Thomas, D. V. M., Prof. Clinics and Med.

*†Clifford Westerfield, D. V. M., Prof. and Head of Anat. and Histol.

*†M. P. Hines, D. V. M., M. P. H., Asst. Prof.

Georgia Agricultural Experiment Station, Experiment (telegraph and express address, Griffin) ‡Extension staff.

†F. F. Cowart, Ph. D., Resident Director.

Agronomy:

- Agronomy:

 †S. V. Stacy, M. S., Agron. and Head of Dept.

 †W. W. Ballard, Agron. (Coop. U. S. D. A.).

 †\$J. P. Craigmiles, M. S., Asst. Agron.

 †A. C. Cross, Mgr. Eatonton Project.

 †T. E. Duncan, B. S., Agr. Engin.

 †J. M. Blrod, M. S., Assoc. Agron.

 †J. G. Futral. B. S., Assoc. Agron.

 †U. R. Gore, Ph. D., Agron.

 †E. S. Hagood, Ph. D., Plant Physiol. (Coop. U. S. D. A.).

 †B. S. Hawkins, M. S., Asst. Agron. (Coop. U. S. D. A.).

 †L. S. Jones, B. S., Asst. Soil Chem.

 †G. A. Lebedeff, Ph. D., Agron.

 †L. C. Olson, Ph. D., Soil Chem.

 †J. T. Thompson, B. S., Asst. Agron.

Animal Industry:

- †O. E. Sell, Ph. D., Pasture Spec. and Head
- †S. Seil, Ph. D., Pasture Spec. and Head of Dept.
 †\$L. V. Crowder, M. S., Assoc. Pasture Spec.
 †W. E. Neville, Jr., M. S., Asst. An. Brdg.
 †E. M. Parker, M. S., Asst. Pasture Spec.
 †B. M. Reges, B. S., Biol. Aid (Coop. U. S.

- D. A.).

 †J. H. Shands, B. S., Asst. Pasture Spec.

 †H. H. Vegors, B. A., Parasit. (Coop. U. S. †H. H. v. D. A.).

Botany:

- †B. B. Higgins, Ph. D., Bot. Plant Path. and Head of Dept. †W. K. Bailey, M. S., Agt. (Coop. U. S.

- †W. A. Danse,
 D. A.).
 †L. W. Boyle, Ph. D., Assoc. Bot.
 †R. E. Burns, Ph. D., Plant Physiol. (Coop.
 U. S. D. A.).
 †E. S. Luttrell, Ph. D., Assoc. Bot. and
- †E. S. Luttrell, Ph. D., Assoc. Bot. Plant Path. †Frank Van Haltern, M. S., Assoc. Bot. †J. L. Weimer, Ph. D., Senior Plant Path. (Coop. U. S. D. A).

Chemistry:

- †K. T. Holley, B. S., Chem. and Head of Dept.
 †T. G. Dulin, A. B., Asst. Chem.
 †W. S. Harms, M. S., Asst. Chem.
 †T. A. Pickett, M. S., Assoc Chem.
 †H. H. Woeber, M. S., Assoc. Chem.

Economics (Agr.):

- conomics (Agr.):

 †W. T. Fullilove, B. S., Agr. Econ. and Head of Dept.

 †R. F. Anderson, B. S., Asst. Agr. Econ.

 †J. C. Elrod, M. S., Assoc. Agr. Econ.

 †K. E. Ford, M. S., Assoc. Agr. Econ.

 †J. T. Harris, B. S., Asst. Econ.

 †W. E. Hendrix, M. S., Agr. Econ.

 †N. M. Penny, M. S., Agr. Econ.

 †Oscar Steanson, M. S., Assoc. Agr. Econ.

Entomology:

*†‡C. M. Beckham, M. S., Ent. and Head of Dept.; Chair. of Div.¹ †Minter DuPree, Asst. Ent.

Food Processing:

- *†‡J. G. Woodroof, Ph. D., Food Technol. and head of Dept.: Chair. of Div.¹
 †S. R. Cecil, B. S., Assoc. Food Technol.
 †W. E. DuPree, Asst. Food Technol.
 †Ethyl Shelor, B. S., Asst. Food Technol.
 †Sara W. Siewert, B. S., Asst. Food Technol.
 †Helen H. Thompson, B. S., Asst. Food Technol.

Home Economics:

- †Mary Speirs, Ph. D., Home Econ. and Head of Dept. †Josephine Miller, B. S., Asst. Home Econ. †Elinor Pearson, M. S., Assoc. Home Econ. †Mary L. Whatley, B. S., Asst. Home Econ.

Horticulture:

†E. F. Savage, Ph. D., Hort. and Head of

¹ Division indicates comparable units at all locations in system.

Horticulture-Continued

†B. B. Brantley, M. S., Asst. Hort.
†A. H. Dempsey, M. S., Assoc. Hort.
†E. T. Faris, B. S., Asst. For.
†B. O. Fry, B. S., Assoc. Hort.
†J. R. Hamilton, M. S., Assoc. For.
†W. Z. Martin, Asst. Hort.
†M. M. Murphy, Asst. Hort.

Miscellaneous:

†Julia Grant, Comptroller.

†Edna H. Olson, Libr. †C. H. Warnock, A. B. J., Editor.

Substation:

Georgia Mountain Branch Sta., P. O., Blairsville-

J. E. Bailey, B. S., in charge.
O. L. Brooks, B. S., Assoc. Agron.
W. H. McKinney, B. S., Asst. An. Husb.
Jack Taylor, M. S., Asst. Hort.

Regional Primary Plant Introduction Sta., P. O.,

Experiment-

E. D. James, Ph. D., Coordinator. L. B. DeYoung, B. S., Tech. Asst. to Coordinator.

Georgia Coastal Plain Experiment Station, Tifton

*College faculty. †Station staff. ‡Extension staff.

†F. P. King, Ph. D., Resident Director.

Agronomy:

*†‡G. W. Burton, Ph. D., Geneticist; Chair. of Div. (Coop. U. S. D. A.)

†S. A. Parham, B. S., Agron. and Head of Dept.
†R. S. Bailey, Sci. Aid., Sea Island Cotton (Coop. U. S. D. A.).
†Fred Bell, Farm Supt.
†E. H. DeVane, M. S., Assoc. Agron. (Coop. U. S. D. A.).
†W. H. Freeman, Ph. D., Cereal Crop. Spec. (Coop. U. S. D. A.).
†J. G. Galnes, M. S., Tobacco Path. (Coop. U. S. D. A.).
†E. J. Gibson, B. S., Tobacco Path. (Shade Tobacco Branch Sta, P. O., Attapulgus).
†J. G. Jenkins, Sea Island Cotton Spec. (Coop. U. S. D. A.).
†W. H. Marchant, B. S., Assoc. Agron.
†W. H. Marchant, B. S., Assoc. Agron. Corn Brdg.

Hadrey Mixon, B. S., Asst. Agron. Corn Brdg.

†Ivan Neas, M. S., Tobacco Agron. (Coop. U. S. D. A.).

†S. B. Parkman, M. S., Assoc. Agron., Seed Stocks.

Stocks.
†B. P. Robinson, M. S., Turf Spec.
†J. L. Stephens, M. S., Forage Crop Spec.
(Coop. U. S. D. A.).
†J. H. Turner, Jr., B. S., Agron., Cotton
Brdg.
†J. C. Walters, Asst. Forage Crop Spec.
(Coop. U. S. D. A.).

Animal Diseases:

†W. L. Sippell, D. V. M., An. Path. and Head of Dept.; Chair. of Div^1 ; †C. I. Boyer, Jr., D. V. M., An. Path. †M. R. Gardiner, D. V. M., An. Path.

Animal Husbandry:

†B. L. Southwell, M. S., An. Husb. and Head of Dept.
†J. S. Andrews, D. Sc., Parasit. (Coop. U. S. D. A.).
†Garrett Jones, B. S., Assoc. Dairyman.
†F. E. Knox, Jr., Sci. Aid (Coop. U. S.

TF. E. Knox, Jr., Sci. Aia (1999). D. A.).

W. C. McCormick, M. S., Assoc. An. Husb. Harrison Rainwater, B. S., Assoc. An. Husb. (Coop. U. S. D. A.).

Botany:

†Mrs. rs. Naomi C. Woodroof, M. S., Path. (Coop. U. S. D. A).

Engineering (Agr.):

†J. L. Shepherd, B. S., Agr. Engin. and Head of Dept.
†W. D. Kenney, B. S., Assoc. Agr. Engin. (Coop. U. S. D. A.).
†J. M. Stanley, B. S., Assoc. Agr. Engin. (Coop. U. S. D. A.).

Entomology:

†P. M. Gilmer, Ph. D., Ent. (Coop. U. S. D. A.) and Head of Dept.
†D. W. LaHue, M. S., Ent. (Coop. U. S. D. A.).
†L. W. Morgan, M. A., Asst. Ent.
†G. H. Spitler, B. S., Sci. Aid (Coop. U. S. D. A.).

Horticulture:

†Otis Woodard, B. S., Hort. and Head of Dept.
†H. I. Borders, Ph. D., Path. (Coop. U. S. D. A.).
†W. T. Brightwell, M. S., Assoc. Hort.
†D. L. Gill, Ph. D., Hort. (Coop. U. S. D. A.).

†S. A. Harmon, B. S., Assoc. Hort.

Nematology:

†J. H. Machmer, B. S., Assoc. Nematologist (Coop. U. S. D. A.).

Plant Pathology:

†H. W. Rankin, M. S., Plant Path.

Range:

†L. K. Halls, M. S., Range Conserv. †R. H. Suman, B. S., Range Conserv. (Coop. U. S. D. A.). Soils:

†R. L. Carter, M. S., Soil Sci. and Head of Dept. †G. N. Sparrow, B. S., Project Supvr. (SCS: Coop. U. S. D. A.).

Miscellaneous:

†Mrs. D. T. Sutton, A. B., Libr.

Savannah State College, State College Branch, Savannah

*Agricultural faculty. ‡Extension staff.

*W. K. Payne, A. B., M. A., President.

‡A. S. Bacon, B. S., Asst. Supvr.

*Asay Eaddy, B. S., Farm Mgr.

*E. A. Harmond, M. S., Agr.

*Luella Hawkins, B. S. in L. S., Libr.

‡Augustus Hill, B. S., Asst. State Club. Agt.

‡Alexander Hurse, B. S., State Club Agt.

*Evanel Renfrow, M. S., Home Econ. ‡P. H. Stone, B. S., State Agt. *F. D. Tharpe, B. S., Farm Shop. ‡Camilla Weems, M. A., Asst. State Agt. *J. B. Wright, M. S., Agr.

¹ Division indicates comparable units at all locations in system.

HAWAII

University of Hawaii (Departments of Agriculture and Home Economics), the Hawaii Agricultural Experiment Station, and the Agricultural Extension Service, Honolulu 14

*College faculty. †Station staff. ‡Extension staff.

*G. M. Sinclair, M. A., LL. D., President of University.

*K. C. Leebrick, Ph. D., Vice President.

*†‡H. A. Wadsworth, B. S., Dean Coll. of Agr., Dir. of Agr. Expt. Sta.,

Dir. of Agr. Ext. Service.

†L. A. Henke, M. S., Assoc. Dir. of Agr. Expt. Sta.

‡Y. B. Goto, B. S., Assoc. Dir. of Agr. Ext. Service.

*J. M. Skorpen, B. A., Treas.

Agronomy:

†J. C. Ripperton, M. S., Agron. ‡E. Y. Hosaka, M. S., Asst. Spec. †Makoto Takahashi, M. S., Junior Agron. †O. R. Younge, Ph. D., Assoc. Agron. *†Oscar Zoebisch, Ph. D., Asst. Agron.

Animal Husbandry:

*†L. A. Henke, M. S., Prof. An. Husb.; An.

Husb. †I. I. Iwanaga, B. S., Junior An. Husb. *†S. B. Nordfeldt, Ph. D., An. Husb. ‡H. M. Vollrath, M. S., Ext. An. Husb.

Botany and Plant Physiology:

*Harold St. John, Ph. D., Prof. Bot.
*E. J. Britten, Ph. D., Asst. Prof. Bot.
*O. A. Bushnell, Ph. D., Asst. Prof. Bact.
*F. W. Hartman, D. Sc., Asst. Prof. Bact.
*M. L. Lohman, Ph. D., Assoc. Prof. Bot.

Chemistry and Sugar Technology:

*Mrs. Leonora N. Bilger, Ph. D., Prof. Chem.
*E. M. Bilger, Ph. D., Prof. Chem.
*J. J. Naughton, Ph. D., Asst. Prof. Chem.
*K. W. Sherk, Ph. D., Assoc. Prof. Chem.
*E. G. Smith, Ph. D., Asst. Prof. Chem.

Economics (Agr.):

†‡R. C. Elliottt, B. S., Assoc. Agr. Econ. and Ext. Econ.

Ext. Econ.

‡J. T. Ishida, B. S., Junior Ext. Econ.

‡P. F. Phillip, B. S., Asst. Ext. Econ.

†J. V. Powell, M. A., Asst. Agr. Econ.

‡Irwin Rust, B. A., Assoc. Spec. Coop. Mktg.

‡Shiro Takei, B. S., Junior Ext. Econ.

Education (Agr.):

*F. E. Armstrong, Ph. D., Prof. Agr. Ed.

Engineering (Agr.):

*†Rene Guillou, M. S., Prof. Agr. Engin.; Agr. Engin. †R. T. Tribble, M. S., Asst. Agr. Engin.

Entomology:

*†H. A. Bess, Ph. D., Prof. Ent.; Senior Ent. †F. H. Haramoto, B. S., Asst. in Ent. *†D. E. Hardy, Ph. D., Assoc. Prof. and Assoc. Ent.

Assoc. Ent.
†W. C. Mitchell, M. S., Junior Ent.
†I. M. Newell, Ph. D., Assoc. Ent.
†Toshiyuki Nishida, M. S., Junior Ent.
†Francis Rathburn, B. S., Asst. in Ent.
†Martin Sherman, Ph. D., Asst. Ent.
†Yoshinori Tanada, M. S., Junior Ent.
†Robert Van den Bosch, Ph. D., Asst. Ent.

Extension Leaders:

‡J. H. Boyd, B. S., County Agt. Leader. ‡Esther R. Rugland, M. S., Asst. Ext. Club __Leader.

‡J. L. Stormont, B. S., Ext. Club Leader. ‡Mrs. Alice P. Trimble, B. S., Home Dem. Leader.

Geology:

*H. S. Palmer, Ph. D., Prof. Geol.

Home Economics and Nutrition:

*†Carey D. Miller, M. S., Prof. Foods and Nutr.; Nutr.

*Mrs. Mary L. Bartow, A. B., Instr. Home

Econ.

†Adelia C. Bauer, M. S., Junior Nutr.

*Mrs. Elsie M. Boatman, M. S., Instr. Home

Econ. *Mildred H. Botsford, M. S., Instr. Home

Econ. Mrs. Katherine Carter, B. S., Ext. Foods

†MITS. Rather the Carter, B. S., Zav. Love and Nutr. Spec.
†Helen L. Denning, B. S., Asst. in Nutr.
*Helen I. Douty, M. S., Instr. Home Econ.
‡Norma Edwards, Asst. Ext. Home Mgt.

Spec.

*Boletha Frojen, M. A., Assoc. Prof. Home

*Boletha Frojen, M. A., Assoc. 17.7.

*Econ.

*Mrs. Katherine B. Gruelle, M. A., Assoc.

*Prof. Home Econ.

*Alice J. Gunn, Instr. Home Econ.

†Florence P. Ho, Ph. D., Assoc. Nutr.

†Mildred McIntosh, B. S., Asst. Home Econ.

†Kathryn J. Orr, M. S., Junior Nutr.

*Jeanette Owens, B. S., Instr. Home Econ.

*E. F. Shudlick, M. A., Instr. Home Econ.

*Oma Umbel, M. S., Asst. Prof. Home Econ.

*Dorothy L. Urban, B. S., Instr. Home Econ.

Horticulture and Genetics:

†J. H. Beatmont, Ph. D., Hort,
†F. A. Bowers, B. S., Junior Hort,
†R. A. Hamilton, M. S., Asst. Hort,
‡A. C. Hieronymus, B. S., Asst. Ext. Hort,
‡Yukio Nakagawa, B. S., Asst. in Hort,
†H. Y. Nakasone, B. S., Asst. in Hort,
†W. B. Storey, Ph. D., Assoc. Prof. Agr. and
Genetics; Assoc. Hort.

Library:

*C. G. Stroven, Ph. D., Libr.

Parasitology:

†J. E. Alicata, Ph. D., Parasit.

Pathology:

†J. W. Hendrix, M. F., Ph. D., Assoc. Plant

†H. H. Murakishi, Ph. D., Asst. Plant Path.

Physics:

*W. H. Eller, Ph. D., Prof. Phys. *Iwao Miyake, M. S., Asst. Prof. Phys. *R. A. Toupin, M. S., Instr. Phys.

Plant Physiology:

*†C. J. Engard, Ph. D., Assoc. Prof. and Assoc. Plant Physiol.
†E. K. Akamine, M. S., Junior Plant Physiol.
†Minoru Awada, M. S., Junior Plant Physiol.
†H. F. Clements, Ph. D., Plant Physiol.
†B. J. Cooil, Ph. D., Assoc. Plant Physiol.
†Norma Larsen, B. A., Asst. in Plant Physiol.

Physiol.

†Shigeru Nakata, M. S., Junior Plant
Physiol.

†Ruth I. Robinson, M. A., Asst. in Plant

Physiol.

Poultry Husbandry:

*†C. M. Bice, B. S., Prof. Poultry Husb. †A. L. Palafox, M. S., Junior Poultry Husb. *†M. M. Rosenberg, Ph. D., Asst. Poultry *†M. Husb.

†Tokushi Tanaka, B. S., Asst. in Poultry Husb.

Publications:

†Margaret Blegen, B. A., Sta. Editor. ‡Louise Jessen, B. A., Ext. Editor. ‡Juliette Wentworth, M. S., Sci. Editor.

Soils and Agricultural Chemistry:

*†G. D. Sherman, Ph. D., Prof. Soil and Agr.

*†G. D. Sherman, Ph. D., Prof. Soil and Agr. Chem.; Chem.
†‡Ada E. Chang, B. S., Asst. in Chem.
†‡Z. C. Foster, B. S., Ext. Soils Conserv.
†Glichi Fujimoto, M. S., Asst. Chem.
†Yoshikiko Kawano, B. S., Asst. in Chem.
†Yoshikiko Kawano, B. S., Asst. in Chem.
†Hiromu Matsumoto, M. S., Junior Chem.
†Yoshito Matsusaka, B. S., Asst. in Chem.
†Annie K. S. Tom, B. S., Asst. in Soil and Agr. Chem.

Vegetable Crops:

*†C. F. Poole, Ph. D., Prof. Agr.; Oler.

Vegetable Crops—Continued

†‡R. K. Dennett, B. S., Asst. in Oler. *†J. C. Gilbert, M. A., Junior Oler.

Zoology:

*R. W. Hiatt, Ph. D., Assoc. Prof. Zool.

*A. H. Banner, Ph. D., Asst. Prof. Zool.

*Walter Carter, Ph. D., Lect. in Zool.

*G. W. Chu, Sc. D., Assoc. Prof. Zool.

*M. W. DeLaubenfels, Ph. D., Prof. Zool.

*W. A. Gosline, Ph. D., Assoc. Prof. Zool.

*†D. E. Hardy, Ph. D., Assoc. Prof. and Assoc.

**Bnt.

Ent.

*Pnt. *Pntline Heizer, Ph. D., Asst. Prof. Zool. *P. C. Matthews, Ph. D., Assoc. Prof. Zool. *B. T. Scheer, Ph. D., Assoc. Prof. Zool. *A. L. Tester, Ph. D., Prof. Zool. *L. D. Tuthill, Ph. D., Assoc. Prof. Zool. and

Ent.

Substations:

stations:
Haleakala Branch Sta., P. O., Makawa,
Maui—Kazuo Murakami, Foreman.
Kona Branch Sta., P. O., Kealakekua,
Kona—E. T. Fukunaga, M. S., Asst. Agr.
Poamoho Expt. Farm, P. O., Waihawa,
Oahu—F. R. Mercado, Foreman.
Waimanalo Expt. Farm, P. O., Waimanalo,
Oahu—H. Waki. Foreman.

Oahu-H. Waki, Foreman.

IDAHO

College of Agriculture and the Agricultural Experiment Station of the University of Idaho, Moscow

aff. ‡Extension staff. ||Military leave. †Station staff. *College faculty. Leave of absence.

*J. E. Buchanan, M. S., C. E., President of University.

*†‡D. R. Theophilus, Ph. D., Dean Coll. of Agr., Dir. of Sta., Dir. of Ext.

*H. A. Winner, M. S., Asst. Dean Coll. of Agr.

†J. E. Kraus, Ph. D., Assoc. Dir. of Sta.

‡C. O. Youngstrom, M. S., Assoc. Dir. of Ext.

K. A. Dick, M. S., Bursar and Business Mgr.

Agronomy:

*†K. H. Klages, Ph. D., Prof. and Head of Dept.

*†G. Ö. Baker, M. S., Prof. Agron. (Soils); Soil Technol. ‡Mrs. Eleanor L. Ball, B. S., State Seed

Analyst.

*†C. T. Brackney, M. S., Instr. and Asst.

Agron.
D. E. Corless, M. S., Coop. U. S. D. A.
Donald Douglas, M. S. (Coop. U. S. D. A.:

P. O. Aberdeen.
†L. C. Erickson, M. S., Assoc. Prof. and
Assoc. Agron.
*†M. A. Fosberg, M. S., Asst. Prof. and Asst

*†R. W. Harder, M. S., Asst. Prof. and Asst.

*†R. W. Harder, M. S., Asst. Prof. and Asst. Agron.
J. M. Hodgson, M. S., (Coop. U. S. D. A.: P. O., Meridian).
†‡||Earl Horning, B. S., Junior Asst. Agron.
†M. J. LeBaron, B. S., Junior Asst. Agron.
H. C. McKay, M. S., (Coop. U. S. D. A.: P. O., Tetonia).
C. F. Parrott, B. S., Coop. U. S. D. A.
*†W. K. Pope. Ph. D., Assoc. Prof. and Assoc. Agron.
†C. I. Seely, M. S., Agron.
†C. A. Simkins, M. S., Asst. Agron. (P. O., Aberdeen).

A. Simkins
Aberdeen).

V. T. Sm

T. Smith, M. S., Soils Spec. (P. O., Boise). Harland Stevens, M. S., (Coop. U. S. D. A.:

Agron. and

P. O., Aberdeen). ‡E. W. Whitman, M. S., Ext. Agr Pure Seed Comr. (P. O., Boise).

Animal Husbandry:

*†C. W. Hickman, M. S., Prof. and Head of Dept. *†C. W. Hodgson, Ph. D., Assoc. Prof. and

Assoc. An. Husb.

Animal Husbandry-Continued

*†T. B. Keith, Ph. D., Assoc. Prof. and Assoc.

*†W. P. Lehrer, Jr., M. S., Asst. Prof. and Asst. An. Husb. ‡E. F. Rinehart, M. S., Ext. An. Husb. (P. O.,

Boise). ±W. G. Wells, B. S., Swine Spec. (P. O., Boise).

Bacteriology:

*†V. A. Cherrington, Ph. D., Prof. and Head of Dept. *†G. R. Anderson, M. S., Asst. Prof. and Asst. Bact. *†W. L. Harris, M. S., Instr. and Junior Asst. Bact. *†O. B. Weeks, Ph. D., Assoc. Prof. and

Assoc. Bact.

Chemistry (Agr.):

*†A. C. Wiese, Ph. D., Prof. and Head of Dept. †R. V. Dahlstrom, B. S., Tech. *†J. V. Jordan, Ph. D., Asst. Prof. and Asst.

Agr. Chem. *†G. C. Lewis, M. S., Instr. and Junior Asst.

Agr. Chem. *†H. D. Wycoff, M. S., Asst. Prof. and Asst. Agr. Chem.

Dairy Husbandry:

*†D. L. Fourt, M. S., Prof. and Head of Dept.

†G. C. Anderson, M. S., Ext. Dairyman
(P. O., Boise).

† ||J. C. Boyd, M. S., Assoc. Prof. and Assoc.
Dairy Husb.

*†B. J. Demott, B. S., Instr. and Junior Asst.
Dairy Husb.

*†H. C. Hansen, Ph. D., Asst. Prof. and Asst.
Dairy Husb.

†W. R. Harvey, Ph. D., Assoc. Dairy Husb.

†W. R. Harvey, Ph. D., Assoc. Dairy Husb.

Dairy Husbandry-Continued

*†R. H. Ross, Ph. D., Assoc. Prof. and Assoc. Dairy Husb.

Economics (Agr.):

*†W. E. Folz, Ph. D., Prof. and Head of Dept. *†R. C. Beyan, M. S., Assoc. Prof. and Assoc.

*†R. C. Bevan, M. S., Assoc. I. C.,

Agr. Econ.

‡V. D. Kennedy, M. S., Farm Mgt. Spec.

(P. O., Boise).

†C. P. Libeau, Ph. D., Asst. Agr. Econ.

*†D. A. Marshall, Ph. D., Assoc. Prof. and

Assoc. Agr. Econ.

†V. A. Nally, B. S., Asst. Agr. Econ. (P. O.,

Boise).

†V. A. Nally, B. S., Asst. Agr. Econ. (P. O., Boise).

†S. A. Walker, M. S., Asst. Agr. Econ. (Coop. U. S. D. A.).

‡R. W. Wilcox. Ph. D., Ext. Agr. Econ. (P. O., Boise).

Education (Agr.):

*H. A. Winner, M. S., Prof. and Head of Dept*D. L. Kindschy, M. S., Assoc. Prof. Agr. Ed.

Engineering (Agr.):

*†J. W. Martin, M. S., Prof. and Head of

‡O. K. Brown, M. S., Ext. Agr. Engin. †G. L. Corey, M. S., Asst. Irrig. (P. O., Aberdeen).

. R. Friberg, M. Assoc. Agr. Engin. M. S., Assoc. Prof. and

*†M. C. Jensen, M. S., Assoc. Prof. Agr. Engin.; Irrig. †W. H. Knight, M. S., Asst. Agr. Engin. (Farm Electrification).

*L. M. Messersmith, Junior Asst. Agr. En-

*† $\|\mathbf{W}.\mathbf{J}.$ J. Schmid, B. S., Instr. and Junior Asst. Agr. Engin.

Entomology:

*†H._C. Manis, Ph. D., Prof. and Head of Dept. *†W. F. Barr, M. S., Asst. Prof. and Asst.

†R. W. Portman, M. S., Ext. Ent.
Ralph Schopp, M. S., (Coop. U. S. D. A.).
†A. J. Walz, M. S., Asst. Ent. (P. O.,

Extension Administration:

‡D. R. Theophilus, Ph. D., Dir. ‡C. O. Youngstrom, M. S., Assoc. Dir. ‡J. W. Barber, M. S., State County Agt. Leader

Leader.

\$Marion M. Hepworth, B. S., State Home Dem. Leader.

\$Lillian Johannesen, B. S., Asst. State 4-H Club Leader.

\$D. E. Warren, B. S., State 4-H Club

Leader.

Forestry:

‡V. F. Ravenscroft, B. S., Ext. For. ‡V. H. Burlison, B. S., Asst. Ext. For.

Home Economics:

†Ella Woods, Ph. D., Home Econ. †Mildred Haberly, M. S., Nutr. Spec. †Esther Nystrom, B. S., Clothing Spec. †Kathleen O. Porter, M. S., Asst. Home

Horticulture:

*†G. W. Woodbury, Ph. D., Prof. and Head of

Dept.
†E. T. Bullard, Ph. D., Assoc. Hort. (P. O., Parma).

†A. S. Horn, M. S., Ext. Hort. (P. O., Boise).
*E. H. New, M. S., Asst. Prof. Hort.
E. W. Owens, Coop. U. S. D. A.
†W. C. Sparks, M. S., Assoc. Hort. (P. O.,

*†§Leif Verner, Ph. D., Prof. Hort.; Hort.

Plant Pathology:

*†C. W. Hungerford, Ph. D., Prof. and Head of Dent., Dean of Grad. School.
†Leslie Dean, M. S., Asst. Plant Path.
(P. O., Twin Falls).
†Arthur Finley, Ph. D., Asst. Plant Path.

†Arthur Finley, Ph. D., Asst. Plant Path. (P. O., Parma).
†R. C. Ladeburg, Ph. D., Assoc. Plant Path.
*†J. M. Raeder, M. S., Assoc. Prof. and Assoc. Plant Path.
*†R. D. Watson, Ph. D., Assoc. Prof. and Assoc. Plant Path.

Poultry Husbandry:

*†C. E. Lampman, M. S., Prof. and Head of Dept. ‡R. W. Merrill, B. S., Ext. Poultryman. †C. F. Petersen, M. S., Assoc. Poultryman.

Publications:

*O. A. Fitzgerald, M. A., Prof. and Staff Editor.

‡A. R. Harney, M. A., Ext. Editor. ‡C. G. d'Easum, B. A., Asst. Ext. Editor. *†R. P. Schultz, M. S., Asst. Agr. Editor.

Veterinary Science:

*†L. H. Scrivner, D. V. M., M. S., Prof. and

Head of Dept.

*†W. B. Ardrey, Ph. D., Prof. Vet. Sci.; Path.

*†G. E. Wiggins, D. V. M., Asst. Prof. and Asst. Vet.

Branch Stations:

Aberdeen—R. E. Knight, B. S., Supt. Caldwell—R. F. Johnson, B. S., Supt. ID. C. Kerby, B. S., Asst. Supt. Parma—D. F. Franklin, B. S., Supt. Sandpoint—M. R. Samson, M. S., Supt. Tetonia—W. A. Moss, B. S., Supt.

ILLINOIS

The College of Agriculture, the Agricultural Experiment Station, and the Extension Service in Agriculture and Home Economics of the University of Illinois, *Urbana*

*College faculty. †Station staff. \$Leave of absence. || M aff. ‡Extension staff. ∥Military leave.

*G. D. Stoddard, Ph. D., Litt. D., LL. D., L. H. D., President of University.

†‡H. P. Rusk, D. Sc., Dean Coll. of Agr., Dir. of Sta., Dir. of Ext. Service.

†W. E. Carroll, Ph. D., Assoc. Dir. of Sta.

*R. R. Hudelson, Ph. D., Assoc. Dean Coll. of Agr.

**W. G. Kammlade, Ph. D., Assoc. Dir. Ext. Service.

*C. D. Smith, M. S., Asst. Dean Coll. of Agr., Asst. Dir. of Sta.

*†‡H. W. Bean, M. S., Asst. Dean Coll. of Agr., Asst. Dir. of Sta.

*†Lloyd Morey, LL. D., C. P. A., Comptroller.

Agronomy:

*†W. L. Burlison, Ph. D., D. Agr., Head of Dept., Prof., Crop Prod.

Agronomy—Continued

†J. D. Alexander, B. S., Asst., Soil Phys. †C. J. Badger, B. S., Assoc., Soil Fert.

Agronomy-Continued

*†F. C. Bauer, Ph. D., Prof., Soil Fert. *†A. H. Beavers, Ph. D., Asst. Prof., Soil

Phys.

7. M. Bever, Ph. D., Assoc. Prof., Crop.
Path. (Coop. U. S. D. A.).

T. Bonnett, Ph. D., Prof., Plant Genet-

*†O.

*†R. H. Bray, Ph. D., Prof., Soil Fert.
†H. L. Breland, M. S., Asst. Soil Fert.
*†G. H. Dungan, Ph. D., Prof., Crop Prod.
*†E. B. Earley, Ph. D., Assoc. Prof., Soil

*†E. B. Earley, Ph. D., Assoc. Prof., Sour Fert.
†C. H. Farnham, B. S., Asst. Prof., Crop Prod. and Soil Fert.
†J. B. Fehrenbacher, M. S., Asst. Prof., Soil Phys.
*†R. F. Fuelleman, Ph. D., Prof., Crop Prod.
*†J. W. Gerdemann, Ph. D., Asst. Prof. Crop Path.
** I. E. Classking, Ph. D., Prof., Soil Phys.

*†J. E. Gieseking, Ph. D., Prof. Soil Phys. †J. H. Griffin, B. S., Asst. Soil Fert. ‡J. C. Hackleman, A. M., Prof., Crops †P. E. Johnson, B. S., Asst. Prof., Soil Fert. *†R. W. Jugenheimer, Ph. D., Prof., Plant

Genetics. *W. E. Kennedy, M. S., Instr., Crop Prod. †E. G. Knox, M. S., Asst. Soil Phys. *†Benjamin Koehler, Ph. D., Prof., Crop

*†L T. Kurtz, Ph. D., Assoc. Prof., Soil Fert. †A. L. Lang, M. S., Prof., Soil Fert. † E. R. Leng, Ph. D., Asst. Prof., Plant

Genetics.

C. M. Linsley, M. S., Prof. Soils.

D. L. Lynch, M. S., Instr. and First Asst.,

Soil Biol.

†J. C. Lyons, M. S., Asst. Soil Fert.

†S. W. Melsted, Ph. D., Assoc. Prof., Soil

Fert. *†S.

†L. B. Miller, B. S., Asst. Prof., Soil Fert. †M. M. Mortland, M. S., First Asst. Soil $P\bar{h}ys$

†D. L. Mulvaney, B. S., Asst. Soil Fert. †L. J. Norton, Ph. D., Prof. †R. T. Odell, Ph. D., Assoc. Prof., Soil

*†R. T. Odell, Fu. ~.,

*Phys.

†J. W. Pendleton, B .S, First Asst. Crop

Prod. ‡W. F. Purnell, B. S., Asst. Prof., Soil Con-

‡W. F. Purneii, D. S., 22.

†B. W. Ray, B. S., Asst., Soil Phys.

†R. H. Rust, B. S., Asst., Soil Phys.

†W. O. Scott, M. S., Asst. Prof., Crop Ext.

*†O. H. Sears, Ph. D., Prof., Soil Biol.

*†F. W. Slife, M. S., Instr. and First Asst., Crop Prod.

†H. J. Snider, M. S., Asst. Prof., Soil Fert.

*†R. S. Stauffer, Ph. D., Assoc. Prof., Soil Phys.

*†R. S. Statuler, Fh. D., Association Phys.

†A. U. Thor, M. S., Asst. Prof. Soil Ext.

*†E. H. Tyner, Ph. D., Prof. Soil Fert.

†P. T. Veale, M. S., Asst. Prof., Soil Phys.

†D. A. Vinson, B. S., Asst., Soil Fert.

‡E. D. Walker, B. S., Assoc. Prof., Soil

Conserv. . L. Wascher, M. S., Asst. Prof., Soil

*†H. L. Wascher, M. S., Asst. Proj., Sov. Phys.

†R. O. Weibel, M. S., Asst. Prof., Crop Prod. and Plant Genetics.

*D. C. Wimer, Ph. D., Prof., Soil Phys.

*†C. M. Woodworth, Ph. D., Prof., Plant Genetics.

Animal Science:

Animal Science:

*†L. E. Card, Ph. D., Head of Dept. and Prof.

†Estelle Atkin, B. S., Asst., An. Nutr.

*†‡H. W. Bean, M. S., Assc. Prof.

*†D. E. Becker, Ph. D., Asst. Prof.

*|Sleeter Bull, M. S., Prof., Meats.

‡G. R. Carlisle, M. S., Asst. Prof.

†W. E. Carroll, Ph. D., Prof.

†Eva M. Cohn, M. S., Asst., An. Nutr.

*†C. W. Crawford, B. S., Asst. Prof., Horse

†Mrs. Lucile Dekker-van Ghyl, M. S., Asst., An. Nutr.

Animal Science—Continued

Animal Science—Continued
†Marjorie Edman, M. S., Instr., An. Nutr.
*†J. L. Edmonds, B. S., Prof., Horse Husb.
*†R. M. Forbes, Ph. D., Assoc. Prof., An.
Nutr.
*†U. S. Garrigus, Ph. D., Asst. Prof.
†W. T. Halnes, Asst., An. Nutr.
*†W. H. Hale, Ph. D., Instr.
*†T. S. Hamilton, Ph. D., Prof., An. Nutr.
†Marian F. James, Ph. D., Asst. Prof.
*†B. C. Johnson, Ph. D., Assoc. Prof., An.
Nutr.

*†B. C. Johnson, Ph. D., Assoc. Prof., An. Nutr.

*‡W. G. Kammlade, Ph. D., Prof., An. Sci. and Chair., Dixon Springs Expt. Sta.

*†H. H. Mitchell, Ph. D., Prof., An. Nutr.

*†A. V. Nalbandov, Ph. D., Assoc. Prof., An. Physiol.

*†A. V. Nalbandov, Ph. D., Assoc. Proj., An. Physiol.

†A. L. Neumann, Ph. D., Assoc. Prof.

‡S. F. Ridlen, B. S., Asst. Prof., Poultry.

†Elmer Roberts, Ph. D., Prof., An. Genetics.

†‡H. P. Rusk, D. Sc., Prof. Cattle Husb.

‡H. G. Russell, M. S., Prof.

*†H. M. Scott, Ph. D., Prof.

*†R. R. Snapp, Ph. D., Prof.

*†S. W. Terrill, Ph. D., Asst. Prof.

Dairy Science:

*†G. W. Salisbury, Ph. D., Head of Dept. and

Prof. *†M. H. Alexander, M. S., Asst. Prof., Dairy

*†M. H. Alexander, M. S., Asst. Prof., Duny Prod.

*†R. W. Bartlett, Ph. D., Prof.

‡J. G. Cash, M. S., Assoc. Prof.

‡L. R. Fryman, M. S., Instr.

*†K. E. Gardner, Ph. D., Assoc. Prof., Dairy Prod.

*†R. G. Hansen, Ph. D., Assoc. Prof., Dairy Chem. *†K. E. Harshbarger, M. S., Asst. Prof. Dairy

Prod.

*†R. L. Hays, Ph. D., Asst. Prof., Dairy Cattle Physiol.

*†K. A. Kendall, Ph. D., Asst. Prof., Dairy
Prod.

*†\$S. G. Menefee, Ph. D., Assoc., Dairy Chem. *†S. D. Musgrave, Ph. D., Asst. Prof., Dairy

*†W. O. Nelson, M. S., Asst. Prof., Dairy Bact. *†W. B. Nevens, Ph. D., Prof., Dairy Cattle

Feeding.

*†E. E. Ormiston, M. S., Asst. Prof., Dairy Prod.

Prod.
‡C. S. Rhode, B. S., Prof.
*†H. A. Ruehe, Ph. D., Prof.
*†R. W. Touchberry, Ph. D., Asst. Prof.,
Dairy Cattle Genetics (Coop. U. S.
D. A.).
*†N. L. VanDemark, Ph. D., Asst. Prof.,
Dairy Cattle Physiol.
*†W. A. Wood, Ph. D., Asst. Prof., Dairy
Bact

*†W. W. Yapp, Ph. D., Prof., Dairy Cattle

Brdg.

Economics (Agr.):

*†H. C. M. Case, Ph. D., Head of Dept., Prof. ‡A. T. Anderson, B. S., Asst. Prof. †‡J. B. Andrews, M. S., Prof., Farm Mgt. *†R. W. Bartlett, Ph. D., Prof. ‡Janice E. Beckstrom, A. B., Asst. Rural

Sociol.

†‡E. E. Broadbent, Ph. D., First Asst. and Instr., Agr. Mktg.

*W.D. Buddemeier, M. S., Asst. Prof., Farm

Mgt.
B. Cunningham, B. S., Assoc. Prof.,

†J. B. Cunningham, B. S., Assoc. Proj., Farm Mgt.

†C. L. Folse, M. S., Lect. in Sociol.; Asst. Prof. Rural Sociol.

†H. W. Hannah, B. S., LL. B., Prof., Agr. Law.

†T. A. Hieronymus, Ph. D., Asst. Prof.,

*T. A. Hielonymus, T.L. 2.,

Farm Mgt.

†R. A. Hinton, M. S., Asst., Farm Mgt.

*R. R. Hudelson, Ph. D., Prof.

*†P. E. Johnston, Ph. D., Prof.

Economics (Agr.)-Continued

*†G. L. Jordan, Ph. D., Prof. *†R. A. Kelly, M. S., Asst. Prof., Fruit and

*†R. A. Reny, M. C.,
Veg. Mktg.
†N. G. P. Krausz, B. S., LL. B., First Asst.,
Agr. Law.
*†D. E. Lindstrom, Ph. D., Prof., Rural Sociol.
†‡M. W. Madison, B. S., Asst. Prof., Farm

†A. G. Mueller, M. S., Asst., Farm Mgt.

*†R. J. Mutti, Ph. D., Asst. Prof., Agr. Mktg.

*†L. J. Norton, Ph. D., Prof.

†A. B. Paul, Ph. D., Asst. Prof., Food Indus.

*E. H. Regnier, M. S., Assoc. Prof., Rural

*TE. H. REGNEY, M. S., Assoc. Prof., Kurai Sociol. †F. J. Reiss, M. S., Asst. Prof., Farm Mgt. †R. C. Ross, Ph. D., Prof. †A. C. Ruwe, B. S., First Asst., Farm Mgt. †E. L. Sauer, Ph. D., Agr. Econ. (Coop. U. S. t. H. Simerl, M. S., Assoc, Prof. †C. L. Stewart, Ph. D., D. Sc., Prof. †F. A. Stewart, M. S., Asst. Prof., Farm

†F. A. Stewart, M. S., Asst. Proj., Furm Mgt.

‡L. F. Stice, B. S., Assoc. Prof., Mktg.

†W. N. Thompson, M. S., Asst. Prof., Farm Mgt.

†V. I. West, M. S., Asst.

‡G. B. Whitman, B. S., Asst. Prof., Farm

†V. 1. William, B. S., Assoc. Prof., Farm Mgt.

†R. H. Wilcox, Ph. D., Assoc. Prof., Farm *†J. E. Wills, Ph. D., Assoc. Prof., Farm Mgt.

†W. J. Wills, M. S., Asst. Prof., Livestock

Editorial:

† Anna C. Glover, Assoc. Prof., Editor of Pubs.

Pubs.

†† Hadley Read, M. S., Asst. Prof., Agr. Ext.,
Ext. Editor.

†Mrs. Claire O. Ciha, B. S., Asst. Ext. Editor, Asst. Ext. Editor.

†Jessie E. Heathman, B. S., Asst. Prof.,
Home Econ. Ext., Asst. Ext. Editor.

†A. W. Janes, A. B., Asst. Prof. and Asst.
Editor of Pubs.

‡R. A. Jarnagin, B. A., Instr., Agr. Ext.,
Asst. Ext. Editor.

†Margaret P. McGlothlin, A. M., Instr.,
Asst. Editor of Pubs.

‡J. A. Murray, B. S., Instr., Agr. Ext., Asst.
Ext, Editor.

Ext, Editor.
J. Noordhoff, M. S., Instr., Asst. Ext.

†L. J. NOOTGHOH, M. S., INST., ASST. Editor.
†Margery E. Suhre, M. A., Instr., Asst. Editor of Pubs.
†Berenice A. Zander, M. A., Instr., Asst. Editor of Pubs.

Education (Agr.):

H. M. Hamlin, Ph. D., Prof. Agr. Ed. *H. M. Hamin, Fh. D., Froj. Ayr. Ed. *Marjorie Brown, M. S., Instr. Home Econ. Ed. *G. P. Deyoe, Ph. D., Prof. Agr. Ed. *A. H. Krebs, Ph. D., Instr. Agr. Ed. *Mildred Moore, M. S., Instr. Home Econ.

*Ed. *L. J. Phipps, Ed. D., Asst. Prof. Agr. Ed. *M. J. Scott. Ed. D., Instr. Agr. Ed. *Elizabeth Simpson, M. S., Instr. Home

Econ. Ed. *Letitia E. Walsh, A. M., Prof. Home Econ.

Ed.
*J. N. Weiss, M. S., Asst. Prof. Agr. Ed.
*Mrs. Metta Zahorsky, M. S., Instr. Home Econ. Ed.

Engineering (Agr.):

*†E. W. Lehmann, B. S., E. E., A. E., Head of Dept., Prof.

‡F. W. Andrew, B. S., Asst. Prof.

‡A. R. Ayers, B. S., Instr.

†H. P. Bateman, M. S., M. M. E., Assoc.

*†D. G. Carter, M. S., A. E., Prof., Farm

Structures.

Engineering (Agr.)-Continued

*†J. O. Curtis, M. S., Instr, †M. W. Forth, B. S., Asst. *†R. C. Hay, B. S., Assoc. Prof., Soil Conserv. †‡K. H. Hinchcliff, M. S., Assoc. Prof., Farm

†‡K. H. Hincheliff, M. S., Assoc. Prof., Farm
Structures.
†M. R. Hodgell, B. S., First Asst.
†W. F. Lytle, M. S., Instr.
*J. W. Matthews, M. S., Instr.
*†R. W. Mowery, B. S., Asst.
‡B. F. Muirheid, B. S., Instr.
*†G. E. Pickard, M. S., Assoc. Prof.
*†J. H. Ramser, B. S., Assoc.
*R. I. Shawl, M. S., Prof. Farm Mach.
†\$J. A. Weber, M. S., First Asst.
*A. L. Young, M. S., Assoc. Prof., Farm
Power. Power.

Entomology:

†G. C. Decker, Ph. D., Prof., Ent. State Natural History Survey and Agr. Expt.

‡H. B. Petty, Jr., A. M., Asst. Prof.

Extension Administration:

‡H. P. Rusk, D. Sc., Dir.
‡W. G. Kammlade, Ph. D., Assoc. Dir., State Leader of Farm Advisers and Prof. Agr.

#H. R. Brunnemeyer, B. S., Asst. State Leader of Farm Advisers and Asst. Prof.

tw. F. Coolidge, B. S., Asst. State Leader of Farm Advisers and Asst. Prof. Agr. Ext.

O. F. Gaebe, M. S., Asst. Prof. in Agr. 4-H. Club Work.

th. H. Gordon, B. S., Asst. State Leader of Farm Advisers.

†D. M. Hall, Ph. D., Asst. Prof. in Agr. Ext. †F. E. Longmire, M. S., Asst. State Leader of Farm Advisers and Prof. Agr. Ext. †R. O. Lyon, B. S., Asst. Prof. in Agr. 4-H Club Work.

Club Work.

‡W. D. Murphy, B. S., Asst. State Leader of Farm Advisers and Asst. Prof. Agr. Ext.

‡F. H. Mynard, B. S., Asst. Prof. in Agr.

‡-H Club Work.

‡E. I. Plichard, B. S., Assoc. Prof. in Agr.

‡-H Club Work.

‡F. H. Root, B. E., Instr., Agr. Ext. Camp
Math.

Mgt. Wetzel, B. S., Instr. in Agr. 4-H Club Work. †O. L. Whalin, Ph. D., Assoc. Prof. in Agr.

Ext.

Food Technology:

*†L. B. Howard, Ph. D., Prof., Head of Dept. *†E. O. Herreid, Ph. D., Prof., Dairy Technol. *†O. W. Kaufmann, Ph. D., Instr. Food

*†L. L. Kempe, Ph. D., Asst. Prof. Food Engin. *†F. A. Kummerow, Ph. D., Asst. Prof. Food

Chem.

*†A. I. Nelson, B. S., Acceptage of the Processing.

*†Z. J. Ordal, Ph. D., Assoc. Prof., Food Microbiol.

Microbiol.

Prof., Dairy Technol.

Prof., Dairy *†P. H. Tracy, Ph. D., Prof., Dairy Technol.

*†S. L. Tuckey, Ph. D., Assoc. Prof., Dairy Technol.

†R. M. Whitney, Ph. D., Assoc. Prof., Dairy Technol.

Forestry:

*†J. N. Spaeth, M. F., Ph. D., Head of Dept.,

Prof.

†W. R. Boggess, M. F., Assoc. Prof.

‡W. F. Bulkley, B. S. F., Assoc., Ext. For.

‡L. B. Culver, B. S., Ext. For. and Assoc.

†H. B. Curringham, B. S., Asst. Ext. For. †H. W. Fox, B. S., First Asst., Sinnissippi

For., Oreg. \$B. F. Kent, B. S., Farm For., Charleston, \$\foatharpoonup \text{D. A. Kulp, M. F., First Asst., For. Utilization.

Forestry—Continued
†R. W. Lorenz, Ph. D., Assoc. Prof.
†G. E. Massie, B. S., Asst.
*R. G. Rennels, M. F., Asst. Prof.
†S. J. Ursic, M. F., Asst., For. Res.
‡J. C. Van Camp, Jr., M. F., Farm For.,

†C. S. Walters, M. S., Assoc. Prof., For. Utilization.

Home Economics:

*†Janice M. Smith, Ph. D., Prof. Nutr. and Head of Dept. ‡Geraldine Acker, M. S., Instr., Foods and

Nutr.
†Lucile F. Adamson, M. S., Asst.
†Grace B. Armstrong, A. M., Assoc. Prof.,
Foods and Nutr.
*Harriet T. Barto, A. M., Assoc. Prof. Di-

etetics.

etetics.
†Olive M. Batcher, M. S., Asst.
‡Lulu S. Black, A. M., Asst. State Leader
and Asst. Prof., in charge Ext. Studies
and Training.
‡Margueritte Briggs, M. S., Asst. Prof.,
Child Development and Parent Ed.

*Mrs. Kathryn V. Burns, A. M., State
Leader, Home Econ. Ext. and Prof.
Home Econ.

*tMrs. Kathryn V. Burns, A. M., State
Leader, Home Econ. Ext. and Prof.
Home Econ.

*Mrs. Winifred N. Cagle, B. S., Asst.
tFern Carl, A. M., Assoc., Clothing.
tVirginia R. Charles, A. B., Asst.
tSMary L. Chase, A. M., Asst. State Leader
and Assoc. Prof.

*Susanna B. Colton, M. S., Instr.
tFrances E. Cook, M. S., Instr., Foods.
tErma Cottingham, B. S., Assoc., Home
Econ. 4-H Club Work.
Dorothy F. Durrell, M. A., Instr.
tMrs. Ruth C. Freeman, M. S., Asst. Prof.,
Home Accts.
*Margaret R. Goodyar, M. S., Asst. Prof.
tEdna R. Gray, A. B., B. S., Asst. Prof.

‡Edna R. Gray, A. B., B. S., Acov. Clothing.

‡Lucile Hieser, M. A., Instr. Home Econ.

‡-H Club Work.

*Katharine J. Hivon, Ph. D., Asst. Prof.

*Ruth Hodgson, M. S., Instr.

‡Dorothy J. Iwig, A. M., Asst. Prof. Home
Furnishings.

*Mrs. Pearl E. Janssen, M. S., Assoc. Prof.

*Betty V. Johnson, M. S., Instr. Restaurant
Mat.

*Mrs. Ida B. Johnson, M. S., Instr. Child

*Mrs. Ida B. Johnson, M. S., Inor. Onemo Development.

Gertrude E. Kaiser, M. S., Asst. State Leader and Asst. Prof.

Florence A. Kimmelshue, S. M., Asst. Prof. Home Econ. 1-H Club Work.

*Florence M. King, M. S., Assoc. Prof.

*Mrs. Glenna H. Lamkin, M. S., Assoc.

Mrs. Mary S. Ligon, M. S., Asst. State Leader and Asst. Prof.

*Thelma F. Long, M. A., Instr. Textiles and Clothing.

Clothing.

*Mrs. Millicent V. Martin, B. S., Instr. †Helen E. McCullough, M. A., Res. Assoc. Joda L. McGaughey, M. F. A., Instr. Home Furnishings.

*Mary A. McKee, A. M., Asst. Prof., Home Econ. Club Work.

†Beula V. McKey, M. S., Asst. Prof. Nutr. †Mrs. Winifred Newton, Asst.

*Nellie L. Perkins, Ph. D., Prof.

*Nellie L. Perkins, Ph. D., Prof.

*Antagaret A. Reed, B. S., Res. Assoc.

†Anna M. Searl, A. M., Asst. State Leader and Asst. Prof.

‡Katherine V. Seidel, B. S., Instr. Home Econ. ‡—H Club Work.

*E. Evelyn Smith, A. M., Assoc. Prof. Institution Mgt.

†Catharine Sullivan, M. S., Instr. Home

Catharine Sullivan, M. S., Instr. Home Mgt.

Marian M. Sympson, B. Ed., Asst. State Leader.

Home Economics—Continued

Mrs. Helen D. Turner, M. S., Asst. State Leader.

†Marian E. Tolbert, Ph. D., Asst. Prof. *†Frances O. Van Duyne, Ph. D., Assoc. Prof. Foods.

*Mrs. Florence VanNorden, M. S., Instr.
*Mary E. Vick, A. B., Instr. Institution
Mgt.

Clareta Walker, B. S., Asst. Prof. Rural

Youth. tGladys J. Ward, A. M., Asst. Prof. Home

Mgt

*\$Virginia H. Weaver, A. M., Asst. Prof.
*Kathryn M. Weesner, M. A., Instr.
†Mrs. Elwanda D. White, M. S., Asst.
*Ritta Whitesel, A. M., Asst. Prof.
*Helen K. Zwolanek, A. M., Asst. Prof.

Horticulture:

*†C. J. Birkeland, Ph. D., Prof. and Head of Dept.

*†H. W. Anderson, Ph. D., Prof., Plant Path.

*†C. Y. Arnold, M. S., Assoc. Veg. Crops.

†H. C. Barrett, M. S., First Asst.

*†W. N. Brown, M. S., Assoc. Veg. Crops.

*†J. R. Culbert, M. S., Asst. Prof., Flor.

†J. F. Dayton, B. S., First Asst. Plant Brdg.

*†G. M. Fosler, B. S., Instr. and First Asst., Flor. Flor.

Flor.
†David Gottlieb, Ph. D., Asst. Prof., Plant
Path.

*†W. A. Huelsen, M. S., Prof. Veg. Crops.

*†J. R. Kamp, Ph. D., Assoc. Prof., Flor.

*†V. W. Kelley, Ph. D., Assoc. Prof., Pomol.

‡H. R. Kemmerer, M. S., Instr.

*†M. B. Linford, Ph. D., Prof. Plant Path.

*†M. B. Linn, Ph. D., Assoc. Prof., Plant
Path.

*†R. V. Lott, Ph. D., Assoc. Prof., Pomol.

*†J. P. McCollum, Ph. D., Assoc. Prof., Veg.
Crops.

Crops.

‡J. G. McDaniel, B. S., Asst. Prof.

*†Dwight Powell, Ph. D., Assoc. Prof., Plant

†L. A. Somers, M. S., Asst. Prof.
†C. E. Taylor, M. S., Instr. and First Asst.,
Veg. Crops.
*†H. H. Thornberry, Ph. D., Assoc. Prof.,
Plant Path.
*†B. L. Weaver, M. S., Asst. Prof., Veg.

*†B. L. Weaver, M. S., Asst. Prof., Veg. Crops. *†F. F. Weinard, Ph. D., Assoc. Prof., Flor.

Veterinary Medicine:

†Robert Graham, D. V. M., B. S., Dean, Coll. of Vet. Med., Prof. †J. O. Alberts, D. V. M., Ph. D., Assoc.

†J. O. Alberts, D. V. M., Ph. D., Assoc. Prof.
†P. D. Beamer, D. V. M., M. S., Asst. Prof.
†Rebecca K. Borton, D. V. M., M. S., Instr.
†H. S. Bryan, D. V. M., M. S., Asst. Prof.
†M. S. Cover, V. M. D., M. S., Asst. Prof.
†N. D. Levine, Ph. D., Assoc. Prof.
†R. P. Link, D. V. M., M. S., Asst. Prof.
†M. E. Mansfield, B. S., D. V. M., Asst. Prof.
†C. C. Morrill, D. V. M., Ph. D., Prof.
†Jesse Sampson, D. V. M., Ph. D., Prof.
†S. C. Schmittle, D. V. M., M. S., Instr.
†L. E. St. Clair, D. V. M., Ph. D., Prof.
†G. T. Woods, D. V. M., Asst. Prof.

Miscellaneous:

*Melvin Henderson, M. S., Assoc. Prof. Voc.

*W. D. Buddemeier, M. S., Asst. Prof. Voc.

*H. J. Rucker, M. S., Instr. Voc. Agr. *H. J. Rucker, M. S., Asst. Prof. Voc. Agr. *W. H. Witt, M. S., Asst. Prof. Voc. Agr.

 $\begin{array}{cccc} \textbf{Dixon} & \textbf{Springs} & \textbf{Experiment} & \textbf{Station}, & (P. & O., \\ Robbs) : \end{array}$

†‡R. J. Webb, M. S., Supt., Assoc. Prof., Agr. Res. and Agr. Ext.

Dixon Springs Experiment Station-Continued

†W. R. Boggess, M. F., Assoc. Prof., For. †‡H. A. Cate, B. S., Asst., Agr. Res. and Agr.

Est. †G. F. Cmarik, B. S., Asst., Agr. Res. †L. E. Gard, M. S., First Asst., Agr. Res.

Dixon Springs Experiment Station-Continued †J. M. Lewis, B. S., Asst. Supt., First Asst.,

†M. E. Mansfield, B. S., D. V. M., Asst. Prof. †#G. E. McKibben, M. S., First Asst., Agr. Res., and Agr. Ext.

INDIANA

Schools of Agriculture and Home Economics, the Agricultural Experiment Station, and the Department of Agricultural Extension of Purdue University, La Fayette

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence.

Agronomy:

*†‡J. B. Peterson, Ph. D., Head of Dept.
*†G. H. Cutler, Ph. D., Prof. and Asst. Head

in Agron.

in Agron.
†S. D. Alfred, M. S., Asst. Soil Sci. in Agron.
†S. A. Barber, Ph. D., Asst. Prof. in Agron.
†T. E. Barnes, Asst. in Soil Survey.
‡K. E. Beeson, M. S., Assoc. in Agron.
*A. Bertrand, M. S., Instr. in Soils.
†\$T. M. Bushnell, B. S., Assoc. Prof. and

*†§T.

*†§T. M. Bushnell, B. S., Assoc. Prof. and Assoc. in Agron.

'W. F. Crain, B. S., Asst. in Agron. and Agr. Engin.

†W. H. Daniel, M. S., Asst. Prof. in Agron.

†R. L. Davis, Ph. D., Asst. Prof. in Agron.

†E. H. Enfield, M. S., Assoc. in Agron.

*†L. R. Frederick, Ph. D., Asst. Prof. and Assoc. Microbiol.

*A. R. Hilst, M. S., Instr. Crops.

*†Helmut Kohnke, Ph. D., Assoc. Prof. Agron.; Asst. Soil Technol.

*†H. H. Kramer, Ph. D., Asst. Prof. and Assoc. in Agron.

*†H. H. Kramer, Ph. D., Asst. Proj. ana Assoc. in Agron.

‡H. R. Lathrope, M. S., Assoc. in Agron.

†P. F. Low, Ph. D., Asst. Prof. in Agron.

†O. W. Luetkemeier, M. S., Supt. Agron.

‡J. E. Mangus, Asst. in Agron.

*†S. R. Miles, M. S., Assoc. Prof. and Res. Stat.

†R. E. Moody, B. S., Analyst. ‡J. L. Morrow, B. S., Asst. in Agron. *†G. O. Mott, Ph. D., Assoc. Prof. and Assoc.

*†G. O. Mott, Fh. D., Assoc. Froj. and Assoc. in Agron.

†R. R. Mulvey, B. S., Assoc. in Agron.

†J. E. Newman, M. S., Asst. in Agron. and Stat.

*†A. J. Ohlrogge, Ph. D., Assoc. Prof. and

Asst. in Agron. *†F. L. Patterson, Ph. D., Asst. Prof. and

*†K. T. Payne, Ph. D., Asst. Geneticist in

**TA. T. Fayne, Fh. D., Assoc. Generalizes in Agron.

‡M. O. Pence, M. S., Assoc. in Agron.

†A. H. C. Probst, Ph. D., Assoc. in Agron.

(Coop. U. S. D. A.).

*†G. L. Richardson, Ph. D., Asst. Prof. in

Agron. *F. E. Robbins, M. S., Assoc. Prof. Crop

*F. É. Robbins, M. S., Assoc. Prof. Crop Prod.

†J. P. Seaton, M. S., Assoc. Prof. Soils;
Asst. in Agron.

†M. R. Teel, B. S., Junior Asst. in Agron.

‡H. C. Thompson, B. S., Asst. in Agron.

†\$H. P. Ulrich, B. S., Assoc. Soil Sci.

†G. P. Walker, B. S., Assoc. in Agron.

†R. A. Weaver, B. S., Ch. E., Asst. in Agron.

*F. L. Hovde, M. S., D. Sc., LL. D., President of University.

*F. C. Hockema, M. S., M. E., Ed. D., Vice President and Exec. Dean.

*†† H. J. Reed, B. S., D. Sc., Dean School of Agr., Dir. of Sta., Dir. Dept. of Agr. Ext.

*Mary L. Matthews, B. S., Dean School of Home Econ.

*V. C. Freeman, M. S., Assoc. Dean School of Agr.

†N. J. Volk, Ph. D., Assoc. Dir. of Sta.,

†D. C. Pfendler, M. S., Assoc. Dir. of Agr. Ext.

*D. C. Pfendler, M. S., Asst. to Dean, School of Agr.

†‡R. H. Fosbrink, B. S., Asst. to Dir.

*†‡R. B. Stewart, A. M., LL. D., Vice President and Treas.

†‡C. G. Irion, Asst. Chief Acct.

†S. R. Miles, M. S., Sta. Stat.

†E. E. Remmenga, B. S., Asst. Sta. Stat.

Agronomy—Continued

*†J. L. White, Ph. D., Asst. Prof. Agron.; Asst. Soil Sci. in Agron. †G. G. Williams, M. S., Junior Asst. in Agron.

Animal Husbandry:

*†Claude Harper, M. S., Head of Dept., Chief

Animal Husbandry:

*†Claude Harper, M. S., Head of Dept., Chief in An. Husb.

*†J. R. Wiley, M. S., Assoc. Prof. and Asst. Chief in An. Husb.

*W. T. Anderson, B. S., Asst. Prof. and Assoc. in An. Husb.

*†F. N. Andrews, Ph. D., Prof. and Assoc. An. Husb., Asst. Dean Grad. School.

*†W. M. Beeson, Ph. D., Prof. and Assoc. in An. Husb.

†R. B. Cooley, B. S., Assoc. Prof. An. Husb.; Secy. Stallion Enrollment Board.

*V. C. Freeman, M. S., Prof. An. Husb.

*J. T. Frost, M. S., Assoc. Prof. An. Husb.

**C. F. Gobble, M. Agr., Prof. An. Husb.

**H. Jones, M. S., Instr. in An. Husb.

**H. H. Mayo, B. S., Assoc. in An. Husb.

**T. M. Means, B. S., Instr. in An. Husb.

**T. M. Means, B. S., Instr. in An. Husb.

**T. M. Wears, B. S., Asst. in An. Husb.

**T. W. Perry, B. S., Instr. in An. Husb.

**T. W. Perry, B. S., Instr. in An. Husb.

**T. W. Perry, B. S., Instr. in An. Husb.

**A. C. Sharp, B. S., Instr. an. Husb.

**C. M. Vestal, B. S., Assoc. in An. Husb.

**C. M. Vestal, B. S., Assoc. in An. Husb.

**T. S. Vesting Bl. D. Head of Dept.

Biological Science:

*J. S. Karling, Ph. D., Head of Dept.
*Elizabeth Allen, M. S., Instr. Biol.
*R. R. Armacost, Ph. D., Assoc. Prof. Sci.
Ed.
*R. M. Cable, Ph. D., Prof. Parasit.
*D. H. Dunham, Ph. D., Assoc. Prof. Gen.

Biol.

*R. A. Faust, M. S., Instr. in Bact.

*R. E. Girton, Ph. D., Prof. Plant Physiol.

*C. J. Goodnight, Ph. D., Asst. Prof. Zool.

*A. T. Guard, Ph. D., Assoc. Prof. Bact.

*S. E. Hartsell, Ph. D., Assoc. Prof. Bact.

*W. A. Hiestand, Ph. D., Prof. Physiol.

*Fannie M. Hurst, B. A., Instr. Bot.

*C. M. James, M. S., Assoc. Prof. Anat. and Physiol.

*H. E. Koffler, Ph. D. Asst. Prof. Bact.

*H. E. Koffler, Ph. D., Asst. Prof. Bact.

Biological Science-Continued

*A. A. Lindsay, Ph. D., Asst. Prof. Bot. *Elizabeth L. Mackay, Ph. D., Asst. Prof.

*H. F. Niss. M. S., Instr. Bact. *C. L. Porter, Ph. D., Prof. Bot. *Dorothy Powelson, Ph. D., Assoc. Prof.

A. Rifenburgh, Ph. D., Assoc. Prof. Zool. *S.

*P. L. Sguros, M. S., Instr. Bact. *W. M. Stark, M. S., Instr. in Bact. *F. W. Stemler, M. S., Instr. Zool. *P. A. Tetrault, Ph. D., Prof. Bact. *M. X. Zarrow, Ph. D., Assoc. Prof. Zool.

Botany and Plant Pathology:

*†‡R. M. Caldwell, Ph. D., Head of Dept.

*†J. R. Shay, Ph. D., Prof. Agr. Bot. and
Asst. Head of Dept.

*†K. L. Athow, M. S., Junior Asst. Path.
†A. M. Brunson, Ph. D., Assoc. Geneticist
(Coop. U. S. D. A.).

†Stanley Castell, M. A., Asst. in Bot. (Coop.
U. S. D. A.).

†L. E. Compton, M. S., Asst. Path. (Coop.
U. S. D. 4.).

†L. E. Compton, M. S., Asst. Path. (Coop. U. S. D. A.). *†G. B. Cummins, Ph. D., Prof. Agr. Bot.;

 $Assoc.\ Bot.$

*†L. R. Frederick, Ph. D., Asst. Prof. and Assoc. Microbiol.

*†G. A. Gries, Ph. D., Assoc. Prof. and Assoc. in Bot. and Plant Path. †‡O. C. Lee, M. S., Assoc. Prof. and Assoc.

*J. H. Lefforge, M. S., Assoc. Prof. Agr.

Bot.
. E. Nelson, Ph. D., Assoc. Prof. and Assoc. Geneticist in Bot. and Plant Path. *†O.

*S. N. Postlethwait, Ph. D., Asst. Prof. Agr. Bot.

*†H. W. Reuszer, Ph. D., Assoc. Prof. and Assoc. Microbiol. in Bot. and Plant Path.
†‡R. W. Samson. Ph. D., Assoc. Path.
†‡J. F. Shafer, Ph. D., Assoc. Path.
†‡E. G. Sharvelle, Ph. D., Assoc. Path. in Bot. and Plant Path.
†G. M. Smith, M. S., Assoc. Geneticist (Coop. U. S. D. A.).
*†F. W. Stearns, Ph. D., Asst. Prof. Agr. Bot.
†M. L. Tomes, M. S., Asst. Path. in Bot. and Plant Path.
†A. J. Ullstrup, Ph. D., Assoc. Path. (Coop. U. S. D. A.).

†A. J. Ullstrup, Pn. D., Asst. U. S. D. A.).
†D. D. Watt, Ph. D., Asst. Prof. and Asst. Microbiol.

Chemistry (Agr.):

*†F. W. Quackenbush, Ph. D., Head of Dept. *†R. L. Whistler, Ph. D., Asst. Head in Agr. Chem.

*†R. L. Whistler, Ph. D., Asst. Head in Agr. Chem.
†Pauline I. Balbach, Asst. Seed Analyst.
*P. H. Brewer, M. S., Asst. Prof. Agr. Chem.
†W. L. Caldwell, B. S., Junior Chem.
†A. S. Carter, M. S., Asst. State Seed Comr.
†P. B. Curtis, M. S., Assoc. Chem.
†O. W. Ford, M. S., Assoc. Chem.
†R. R. Hagelberg, A. B., Junior Chem.
*†S. M. Hauge, Ph. D., Assoc. Prof. Agr. Chem.; Assoc. in Biochem.
R. E. Henze, Asst. Chem. in Agr. Chem.
†J. L. Hickson, B. A., Junior Chem.
†J. L. Hickson, B. A., Junior Chem.
†E. T. Mertz, Ph. D., Asst. Prof. and Assoc. in Agr. Chem.
†R. M. Morgan, B. S., Junior Chem.
†H. E. Parker, Ph. D., Asst. Prof. in Agr. Chem.
†W. J. Rabourn, B. S., Junior Chem.
†E. D. Schall, Ph. D., Asst. Chem.
†L. C. Shenberger, M. S., Assoc. Seed Analyst in Agr. Chem.
†C. L. Smart, M. S., Asst. Chem.
†E. S. Turner, M. S., Junior Chem.
†E. S. Turner, M. S., Junior Chem.
†C. C. Yund, B. S., Asst. Chem.

Dairy Husbandry:

†‡H. W. Gregory, M. S., Head of Dept.

†‡F. J. Babel, Ph. D., Assoc. Prof. and Assoc.

†‡B. F. Barnett, B. S., Asst. in Dairy Husb.

†T. H. Binney, M. S., in charge Creamery
License Div.

*K. V. Bryan, M. S., Assoc. Prof. Dairy

License Div.

*K. V. Bryan, M. S., Assoc. Prof. Dairy Husb.

*†B. W. Crowl, B. S., Supt. Dairy Farm.

‡F. E. DeLaCroix, B. S., Asst. in Dairy Husb.

†H. F. Ford, M. S., Asst. Prof. Dairy Husb.

‡E. A. Gannon, B. S., Assc. Dairy Husb.

‡S. M. Gregory, B. S., Asst. in Dairy Husb.

†D. L. Hill, B. S., Asst. Prof. and Asst. Dairy Husb.

Husb.

*†H. A. Hollender, Ph. D., Asst. Prof. and Asst. Dairy Husb. *K. R. Johnson, M. S., Instr. Dairy Husb. †D. E. Kizer, M. S., Junior Asst. in Dairy

†D. E. Kizer, M. S., c......

Husb.

*†N. S. Lundquist, Ph. D., Assoc. Prof. and
Assoc. Dairy Husb.

†V. C. Manhart, M. S., Assoc. in Dairy Husb.

*†E. G. Moody, B. S., Asst. in Dairy Husb.

*V. D. Rhodes, B. S., Instr. and Asst. Supt.
of Creamery.

*Ralph E. Roberts, M. S., Assoc. Prof. Dairy Husb., Supt. of Creamery. †A. W. Shake, Field Supvr. Dairy Husb. †L. C. Vining, Asst. Insp. Creamery License

Husb.

Economics (Agr.):

**Teconomics (Agr.):

*†L. S. Hardin, Fil. D., Froj. and Ass. Econ.

*†J. W. Hicks, Ph. D., Asst. Prof. in Agr. Econ.

†M. R. Janssen, M. S., Asst. in Agr. Econ. (BAE: Coop. U. S. D. A.).

*†J. B. Kohlmeyer, M. S., Assoc. Prof. and Assoc. in Agr. Econ.

†R. L. Kohls, Ph. D., Asst. Prof. in Agr.

Econ ‡L. M. Kyle, M. S., Asst. in Agr. Econ. *†O. G. Lloyd, M. S., Prof. and Assoc. in Agr.

*†J. E. Losey, Ph. D., Assoc. Prof. Agr. Sociol.; Assoc. in Agr. Econ.

‡R. O. Mawby, M. S., Asst. in Agr. Econ.

‡M. P. Mitchell, M. S., Assoc. in Agr. Econ.

‡A. M. Nichter, B. S., Asst. in Agr. Econ.

‡O. Oesterle, M. S., Asst. in Agr. Econ.

*†Don Paarlberg, Ph. D., Assoc. Prof. and Asst. in Agr. Econ.

*†N. T. Pritchard, M. S., Asst. Prof. in Agr. Econ.

‡P. R. Robbins, M. S., Dist. Farm Planning Agt.

†L. S. Robertson, Ph. D., Asst. Chief in Agr. Econ.
‡R. W. Schoeff, B. S., Asst. in Agr. Econ.
‡F. V. Smith, Ph. D., Asst. in Agr. Econ.
‡H. E. Smith, Ph. D., Asst. Prof. in Agr. Econ

*†G. B. Wood, Ph. D., Prof. and Asst. Agr.

†‡J. H. Yeager, M. S., Asst. in Agr. Econ. †‡E. C. Young, Ph. D., Prof. and Assvc. Agr. Econ., Dean of Grad. School.

Editorial:

†‡R. L. Reeder, B. S., Assoc. Dir. Agr. In-

formation.

M. T. Allen, B. S., Ext. Bul. Editor.

F. E. Berggren, B. S., Sta. Bul. Editor.

Education (Agr.):

*S. S. Cromer, Ph. D., Prof. Agr. Ed.
*R. R. Bentley, Ph. D., Asst. Prof. Agr. Ed.
*E. E. Clanin, M. S., Instr. Agr. Ed.
*J. K. Coster, M. S., Instr. Agr. Ed.
and Itinerant Teacher Trainer.
*B. C. Lawson, Ph. D., Prof. Voc. Ed. and Teacher Trainer in Agr. Ed.
*H. W. Leonard, M. S., Assoc. Prof. Agr. Ed.
and Itinerant Teacher Trainer.
*I. G. Morrison, M. S., Prof. Agr. Ed. and Itinerant Teacher Trainer.
*I. G. Morrison, M. S., Prof. Agr. Ed. and Itinerant Teacher Trainer.
*F. D. Van Pelt, M. A., Asst. Instr. Agr. Ed.

Engineering (Agr.):

†‡H. J. Barre, Ph. D., Head of Dept. *†K. K. Barnes, M. S., Asst. Prof. in Agr.

*†K. K. Barnes, M. S., Accor.

Engin.

*D. F. Bline, B. S., Instr. Agr. Engin.

*†D. B. Brooker, M. S., Instr. and Asst. in Agr. Engin.

*A. D. Brown, B. S., Instr. in Agr. Engin.

*†D. E. Burroughs, B. S., Asst. in Agr. Engin.

†W. F. Crain, B. S., Junior Asst. in Agr. Engin. and Agron.

*†A. C. Dale, Ph. D., Asst. Prof. and Asst. Agr. Engin.

*A M. Einerson, B. S., Junior Asst. in Agr.

Engin. †C. E. Hamlin, M. S., Junior Asst. in Agr. Engin.

Engin.

*R. P. Harbage, B. S., Instr. in Agr. Engin.

†R. B. Hickok, B. S., Assoc. Agr. Engin.

(Coop. U. S. D. A.).

†G. W. Isaacs, M. S., Asst. in Agr. Engin.

*P. E. Johnson, M. S., Instr. Agr. Engin.

‡G. A. Karstens, B. S., Asst. in Agr. Engin.

†D. M. Kinch, M. S., Assoc. in Agr. Engin.

†F. C. Lewis, M. S., A. E., Assoc. Prof. Agr. Engin.

Engin.

‡R. M. Lien, B. S., Asst. in Agr. Engin. ‡O. H. Lowery, M. S., Asst. in Agr. Engin. ‡I. D. Mayer, M. S., Assoc. in Agr. Engin. †B. A. McKenzie, B. S., Junior Asst. in

†B. A. MCREINIE, D. S., Vurro, Action Agr. Engin.
†M. T. Orem, B. S., Junior Asst. and Junior Agr. Engin. (Coop. U. S. D. A.).
*R. A. Plowman, M. S., Instr. in Agr. Engin. tw. F. Rissmiller, B. S., Asst. in Agr. Engin.
†G. E. Spencer, M. S. E., Prof. Agr. Engin.
†J. G. Taylor, B. S., Asst. in Agr. Engin.
†R. R. Willsey, B. S., Asst. in Agr. Engin.

Entomology:

*†‡J. J. Davis, B. S., Head of Dept.

*P. W. Berg, B. S., Instr. in Ent.

*H. O. Deay, Ph. D., Prof. Ent.

*†R. T. Everly, M. S., Assoc. Prof. and

Assoc. in Ent.

†G. E. Gould, Ph. D., Assoc. Ent.

†G. E. Lehker, M. S., Assoc. in Ent.

†G. E. Marshall, Ph. D., Assoc. in Ent.

*B. E. Montgomery, Ph. D., Assoc. Prof.

Ent.

*B. E. Montgomer,
Ent.
*J V. Osmun, M. A., Asst. Prof. Ent.
†D. L. Schuder, M. S., Asst. in Ent.
†M. C. Wilson, M. S., Asst. in Ent.

Extension Service:

ADMINISTRATION:

DMINISTRATION:

‡H. J. Reed, B. S., D. Sc., Dir.

‡L. E. Hoffman, B. S., Assoc. Dir. and
County Agt. Leader.

‡Eva L. Goble, M. S., State Leader of Home
Dem. Agts. and Home Econ.

‡L. M. Busche, M. S., Assoc. County Agt.
Leader.

‡R. O. Cole, B. S., Asst. in Soil Conserv.

‡P. K. Connelly, M. S., Asst. County Agt.
Leader. Leader.

Extension Service-Continued ADMINISTRATION-Continued

†R. H. Fosbrink, B. S., Asst. to the Dir. †H. S. Heckard, B. S., Asst. County Agt.

Leader.

Leader.

C. G. Irion, Asst. Chief Acct.

C. G. Irion, Asst. Chief Acct.

Leader in Charge Farmers' Insts.

M. A. Mason, M. P. H., Rural Health Spec
Elizabeth Roniger, M. S., Asst. State
Leader Home Dem. Agts.

Janalyce Rouls, B. S., Asst. State Leader
Home Dem. Agts.

V. D. Sexson, B. S., Asst. County Agt.
Leader.

A. P. Stewart, Asst. in County Agt. Div.

4-H CLUBS:

‡H. B. Taylor, M. S., State Leader 4-H

Clubs.
tW. R. Amick, M. S., Assoc. in 4-H Clubs.
tJ. W. Banning, B. S., Asst. in 4-H Clubs.
tP. B. Brumbaugh, B. S., Asst. in 4-H Clubs.
tMiriam Edmundson, B. S., Asst. in 4-H

#Miriam Edmundson, B. S., Asst. in 4-H Clubs.

‡E. A. Holm, B. S., Asst. in 4-H Clubs.

‡May A. Masten, B. S., Assoc. in 4-H Clubs.

‡F. L. MeReynolds, A. M., Assoc. in Rural

Youth Work and Recreation.

‡J. C. Ralston, B. S., Assoc. in 4-H Clubs.

‡Mary F. Smith, M. A., Assoc. in 4-H Clubs.

‡Edna O. Troth, B. S., Asst. in 4-H Clubs.

INFORMATION:

‡T. R. Johnston, State Leader Ext. Informa-

tion.

‡R. L. Reeder, B. S., Assoc. Dir. of Ext. Information.

†Mary A. Crosson, B. S., Asst. in Ext. Information (Radio).

‡J. I. Jones, B. S., Asst. in Ext. Information.

†Helena Hunt, B. S., Asst. in Ext. Information.

SHORT COURSES AND EXHIBITS:

tW. F. Graham, B. S., Assoc, in Charge, tE. C. Ferringer, B. S., Asst. in Short Courses and Exhibits. tH. R. Knaus, B. S., Asst. in Short Courses and Exhibits.

Forestry and Conservation:

*†‡E. R. Martell, M. S. F., Ph. D., Head of

*†‡E. R. Martell, M. S. F., Ph. D., Heaa of Dept.
†R. C. Brundage, M. S. F., Assoc. in For.
*†Daniel Den Uyl, B. S., M. F., Assoc. Prof. and Assoc. in For.
†W. F. Fix, B. S. F., Dist. Ext. For.
*†A. M. Herrick, M. F., Ph. D., Prof. and Asst. in For.
*†C. M. Kirkpatrick, Ph. D., Asst. Prof. and Asst. in Wildlife Mgt.
*†J. H. Kraemer, M. F., Ph. D., Asst. Prof. and Asst. in For. and Conserv.
†A. N. Liming, B. S. F., Dist. Ext. For.
‡E. J. Lott, B. S., Ext. For.
*†Mario Martinelli, B. S., M. F., Asst. in For. and Conserv.
*Howard Michaud, M. A., Asst. Prof. For.

*Howard Michaud, M. A., Asst. Prof. For. and Conserv.

and Conserv.

†C. I. Miller, M. S., Instr. For.; Asst. For. and Conserv.

‡A. T. Parrish, B. S. F., Asst. Ext. For.

†B. N. Prentice, B. A., M. F., Prof. and Assoc. in For.

‡H. Scholten, B. S., Dist. Ext. For.

‡T. E. Shaw, M. F., Assoc. Prof. and Assoc. in For.

*†E. W. Stark, B. S. F., M. S., Assoc. Prof. For.; Assoc. in For. and Conserv.
†‡D. E. Stullken, M. S., Asst. in Wildlife Mgt.

Home Economics:

*†Mary L. Matthews, B. S., Dean of School and Prof. Home Mgt.

Home Economics-Continued

*Amy I. Bloye, M. A., Head Dept. of Foods and Nutr.

and Nutr.

*Cleo Fitzsimmons, Ph. D., Head Dept. of Home Mgt.

*M. Edith Gamble, M. A., Head Dept. of Institution Mgt.

*Amy L. Howe, M. A., Head Dept. of Clothing and Textiles.

*Mrs. Margaret N. Murphy, Ph. D., Head Dept. of Family Life and Dir. Nursery Schools.

*Laurentza Schantz-Hansen M. A. Head

*Laurentza Schantz-Hansen, M. A., Head Dept. of Applied Design. *Ruth E. Austin, M. A., Asst. Prof. Applied

Design. elen C. Becker, M. S., Instr. Applied *Helen

Design. *Margaret E. Beeman, M. S., Asst. Prof.

Home Mgt. *Thressa Brichetto, M. S., Instr. Family

Life.

*H. T. Christensen, Ph. D., Prof. Sociol.
and Family Life.

*Marybelle Clark, M. S., Instr. Clothing and

Textiles.

*Ruby F. Clark, M. S., Assoc. Prof. Institution Mgt.
*Grace Claunch, M. S., Instr. Applied De-

sign. *Mary L. Curtis, B. S., Instr. Home Econ. Ed.

*Isabelle C. Diehl, M. S., Instr. Family Life. *Georgia Foster, B. S., Instr. Home Econ.

*Gladys Geiger, M. S., Instr. Home Mgt. *Evamae Habig, B. S., Instr. Institution

Mgt.*Ruth A. Hamlin, M. S., Instr. Home Econ.

Ed. *Sylvia M. Hartt, M. S., Asst. Prof. Insti-

**Sylvia M. Hartt, M. S., Asst. Prof. Institution Mgt.

*Jean W. Henkel, M. S., Asst. Prof. Clothing and Textiles.

‡Ruth Hutcheson, B. S., Asst. in Home Mgt.

*Ruth Johnston, M. S., Instr. Home Mgt.

†Ruth Jordan, M. S., Assoc. in Home Econ.

*Ida B. Kelley, Ph. D., Assoc. Prof. Psychology.

chology.
*Edith M. Kirkpatrick, B. S., Instr. Institution Mgt.
*Rhoda E. Larson, R. N., Instr. Family Life.

**tAlma Long, Ph. D., Assoc. Prof. and Res. Spec. in Home Econ. Ed.

*Helen L. Marley, M. S., Instr. Home Mgt.
*Caroline E. McCullough, M. A., Asst. Prof. Family Life.

*Muriel G. McFarland, M. A., Prof. Home

Econ. Ed.

†Gertrude Monhaut, M. S., Asst. in Home Econ. (Home Mgt.). †Dorothy Mummery, Ph. D., Family Life

Spec:

*Marion T. Nagler, M. A., Asst. Prof. Fam-

*Marion I. Nagier, M. A., Asst. Prof. Family Life.

*Marie Nagovsky, M. E., Asst. Prof. Home
Econ. Ed. and Itinerant Teacher Trainer.

‡Lois M. Oberhelman, M. S., Asst. in Foods and Nutr.

*Mrs. Margaret G. Olsen, M. S., Instr. Family Life.

*Justine O'Reilly, M. S., Asst. Prof. Home Econ. Ed.

*Philena F. Palmer, M. S., Asst. Prof. Clothing and Teatiles.

†Gail M. Redfield, M. S., Assoc. in Home Econ.

Econ.

*Elizabeth D. Roseberry, Ph. D., Assoc. Prof. Clothing and Textiles. *Yolanda L. Rossi, M. A., Instr. Applied

Design.
*Cecilia Schuck, Ph. D., Prof. Foods and

Nutr. *Frans Schultze, M. F. A., Instr. Applied Design. ‡Opal D. Stech, M. S., Nutr. Spec.

Home Economics-Continued

*C. M. Stocking, M. A., Instr. Applied Design.

†Frieda C. Stoll, A. M., Assoc. in Clothing. ‡Lottie Sumner, M. S., Asst. in Clothing. *Gertrude L. Sunderlin, Ph. D., Prof. Foods and Nutr.

and Nutr.

*Marilyn Vanderwarf, M. S., Instr. Foods
and Nutr.

*Nell White, M. S., Asst. Prof. Home Mgt.

*Virginia B. White, Ph. D., Assoc. Prof.
Foods and Nutr.

*Marian E. Willoughby, M. A., Asst. Prof.
Textiles and Clothing.

*Mrs. Lucille P. Wilson, M. S., Instr. Foods

and Nutr.

Horticulture:

Horticulture:

*†‡N. K. Ellis, Ph. D., Head of Dept.

†C. L. Burkholder, B. S., Asst. Chief in Hort.

†C. E. Baker, Ph. D., Assoc. in Hort.

*†N. C. Desrosier, Ph. D., Asst. Prof. in Hort.

†J. E. Dickerson, B. S., Assoc. Mkty. Spec.

(Coop. U. S. D. A.; P. O., Indianapolis).

*G. V. Falkenberg, Ph. D., Asst. Prof. Hort.

†K. I. Faweett, B. S., Assoc. in Hort.

‡R. R. Fraser, B. S., Assoc. in Hort.

†F. C. Gaylord, B. S., Asst. Chief in charge

Mkty. and Vegs.

‡H. W. Gilbert, B. S., Assoc. in Hort.

†L. Greene, Ph. D., Prof. in Hort.

†L. Greene, Ph. D., Prof. in Hort.

†C. E. Hoxsie, M. S., Assoc. in Hort.

‡R. B. Hull, A. B., M. L. A., Assoc. in Hort.

‡R. L. Klackle, B. S., Asst. in Hort.

*W. H. Klein, B. A., Instr. in Hort.

*Assoc. in Hort.

*W. H. L. Mort.

*W. H. Lommed R. S. Prof. Hort.

*†A. C. Leopold, Ph. D., Asst. Prof. and Assoc. in Hort.

*W. E. Lommel, B. S., Prof. Hort.

*E. C. Maxie, B. S., Junior Asst. in Hort.

*†J. A. McClintock, M. S., Prof. and Assoc. in Hort.

*†E. C. Stair, M. S., Assoc. Prof. and Asst. in Hort.

*†E. C. Stevenson, Ph. D., Assoc. in Hort.

*M. C. Thomas, M. S., Instr. in Hort.

*†R. B. Tukey, M. S., Asst. Prof. in Hort.

†J. S. Vandemark, M. S., Asst. in Hort.

†W. B. Ward, B. S., Asst. in Hort.

*†G. F. Warren, Ph. D., Assoc. Prof. and Assoc. Hort.

Assoc. Hort.

Physics:

*Karl Lark-Horovitz, Ph. D.. Head of Dept.

Poultry Husbandry:

†‡J. H. Martin, Ph. D., Head of Dept. *†C. W. Carrick, M. S., Prof. and Asst. Chief in Poultry Husb. *‡E. W. Anderson, M. S., Asst. in Poultry

Husb

Husb.
†A. E. Bell, Ph. D., Asst. in Poultry Husb.
*†B. B. Bohren, Ph. D., Prof. and Asst.
Poultry Husb.
‡R. L. Hogue, B. S., Asst. in Poultry Husb.
*†Roy E. Roberts, M. S., Assoc. Prof. and
Assoc. in Poultry Husb

*J. W. Sicer, B. S., Assoc. in Poultry Husb.
*†J. W. West, M. S., Asst. in Poultry Husb.
†M. L. Wilson, B. S., Asst. in Poultry Husb.
†J. B. Wiltshire, Asst. Federal State Supvr.
of Poultry and Egg Grading.

Statistics (Agr.):

†M. M. Justin, M. S., Head of Dept. (Coop. U. S. D A.).
†R. E. Straszheim, M. S., Assoc. Agr. Stat. (Coop. U. S. D. A.).

Veterinary Science:

*†L. M. Hutchings, D. V. M., Ph. D., Head of Dept.
†W. W. Bay, Ph. D., Junior Vet.
*†J. F. Bullard D. V. M., M. S., Prof. and Assoc. in Vet Sci.
‡Doris E. Bunnell, M. S., Asst. in Vet. Sci.

Veterinary Science—Continued

†Olive S. Davis, Ph. D., Asst. in Vet. Sci.

(Coop. U. S' D. A.). †A. L. Delez, D. V. M., M. S., Asst. in Vet.

†A. L. Delez, D. V. M., M. S., Asst. in vet. Sci.

*†C. R. Donham, D. V. M., M. S., Prof. Vet.

†L. P. Doyle, D. V. M., Ph. D., Assoc. in
†D. P. Gustafson, D. V. M., Junior Vet.
‡F. A. Hall, D. V. M., Assoc. Prof Vet. Sci.
*†Wilson Henderson, D. V. M., M. S., Assoc.
Path. in Vet. Sci.

†R. K. Jones, Ph. D., Junior Vet.
†M. W. Lowe, Ph. D., Junior Vet.
†H. F. Moses, D. V. M., M. S., Prof. and
Assoc. Path. in Vet. Sci. (Coop. U. S.

† D. A.).
†J. D. Salisbury, D. V. M., Junior Vet.
†F. L. Walkey, D. V. M., Asst. in Vet. Sci.
*†F. V. Washko, D. V. M., Asst. in Vet. Sci.

Miscellaneous:

†‡J. C. Allen, *Photog.* †W. M. McVey, B. S., *Farm Dir.* *†J. H. Moriarty, M. S., *Dir. Libraries*.

North Central States Regional Poultry Laboratory:

D. C. Warren, Ph. D., Coordinator.

North Central States Regional Poultry Laboratory-Continued

C. H. Moore, M. S., Asst. Coordinator.

State Egg Board:

E. R. Menefee, B. S., Exec. Secy.-Treas.

Substations:

Herbert Davis, For. Farm, P. O., Farm-

land— I. A. Pickard, Supt.

Lynnwood Farm, P. O., Carmel— C. H. Nickel, Supt. Miller-Purdue Memorial Farm, P. O., Upland

land—
R. E. Smith, Supt.

Moses Fell Annex Farm, P. O., Bedford—
H. G. Hall, Supt.
Northern Ind. Muck Crops Expt. Farm,
P. O., North Liberty—
Lee Kepcha, Foreman.
O'Neall Memorial Farm, P. O., La Fayett

E. E. McCracken, Supt.
Pinney-Purdue Farm, P. O., Wanatah—
M. A. Mohler, Supt.
Southwestern, Hort. Expt. Farm, P. O.,

Owensville—
Charles Sims, Foreman.
Throckmorton Farm, P. O., I
E. R. Baugh, M. S., Supt. La Fayette-

IOWA

The Divisions of Agriculture, Home Economics, and Veterinary Medicine, the Agricultural Experiment Station and the Extension Service in Agriculture and Home Economics of the Iowa State College of Agriculture and Mechanic Arts, Ames

*College faculty. †Station staff. \$Leave of absence. iff. ‡Extension staff. ||Military leave.

*C. E. Friley, A. M., LL. D., President.

*†‡Floyd Andre, Ph. D., Dean, Div. of Agr., Dir. of Sta., Dir. of Ext. Service.

†G. M. Browing, Ph. D., Assoc. Dir. of Sta.,

†Murl McDonald, B. S., Assoc. Dir. of Ext. Service.

—, Asst. Dir. of Sta., Asst. Dir. of Ext. Service.

*†Pearl P. Swanson, Ph. D., Asst. Dir. of Sta.

*R. M. Kottman, M. S., Asst. to Dean Div. of Agr.

Agronomy:

*†‡W. H. Pierre, Ph. D., Prof. and Head of Dept. *†I. J. Johnson, Ph. D., Prof. and Head Farm

†A. R. Aandahl, Ph. D., Asst. Prof. Soils (Coop. U. S. D. A.).

†M. A. Anderson, M. S., Assoc. Prof. Agron.

†R. E. Atkins, Ph. D., Assoc. Prof. Farm

†R. E. Atkins, Ph. D., Assoc. Prof. Farm Crops.

*†W. V. Bartholomew, Ph. D., Assoc. Prof. Soils.

*†C. A. Black, Ph. D., Prof. Soils.

‡H. B. Cheney, Ph. D., Prof. Agron.

‡L. E. Clapp, B. S., Prof. Soil Conserv.

†F. E. Clark, Ph. D., Prof. Soils (Coop. U. S. D. A.).

†A. F. Dodge, B. S., Asst. Prof. Farm Crops (Coop. U. S. D. A.).

*C. S. Dorchester, Ph. D., Assoc. Prof. Farm Crops.

†Lloyd Dumenil, B. S., Asst. Prof. Soils. ‡E. S. Dyas, B. S., Asst. Prof. Agron. *†J. C. Eldredge, Ph. D., Assoc. Prof. Farm

*†J. C. Eldredge, Ph. D., Assoc. Proj. Faim.
Crops.

†A. J. Englehorn, M. S., Asst. Prof. Soils.

*B. J. Firkins, M. S., Prof. Soils.

†J. W. Fitts, M. S., Asst. Prof. Soils.

†Virgil Hawk, Ph. D., Farm Crops Collab.
(Coop. U. S. D. A.).

†M. M. Hoover, Ph. D., Prof. Farm Crops
and Regional Coordinator, Project
NC-7. (Coop. U. S. D. A.).

*†H. D. Hughes, M. S., Prof. Farm Crops.

*†R. R. Kalton, Ph. D., Assoc. Prof. Farm
Crops.

Crons.
†Don Kirkham, Ph. D., Prof. Soils.
‡R. E. Krenzin, M. S., Asst. Prof. Agron.

Agronomy-Continued

†J. E. McClelland, Ph. D., Asst. Prof. Soils (Coop. U. S. D. A.). †‡H. R. Meldrum, B. S., Assoc. Prof. Soils. *†D. S. Metcalfe, M. S., Asst. Prof. Farm

*†D. S. Metcalfe, M. S., Asst. Prof. Farm Crops.

†P. A. Miller, Ph. D., Asst. Prof. Farm Crops.
(Coop. U. S. D. A.).
†H. C. Murphy, Ph. D., Prof. Farm Crops.
(Coop. U. S. D. A.).
†J. T. Pesek, Jr., Ph. D., Asst. Prof. Soils.
*Parker Pratt, M. S., Instr. Soils.
*†F. F. Riecken, Ph. D., Prof. Soils.
††J. L. Robinson, Ph. D., Prof. Farm Crops.
†E. W. Schaller, Ph. D., Assoc. Prof. Soils.
(Coop. U. S. D. A.).
†J. M. Scholl, Ph. D., Assoc. Prof. Farm Crops.

Crops.

Crops.

*Wayne Scholtes, M. S., Asst. Prof. Soils.

*†A. D. Scott, Ph. D., Asst. Prof. Soils.

*†R. H. Shaw, Ph. D., Assoc. Prof. Climat.

†G. F. Sprague, Ph. D., Prof. Farm Crops.

(Coop. U. S. D. A.).

†D. W. Staniforth, Ph. D., Asst. Prof. Farm Crops.

†Crops.

†George Stanford, Ph. D., Assoc. Prof. Soils.
*L. M. Thompson, Ph. D., Prof. Soils, in charge Farm Operation Curriculum.
†C. R. Weber, Ph. D., Assoc. Prof. Farm Crops (Coop, U. S. D. A.).
*†C. P. Wilsie, Ph. D., Prof. Farm Crops.

Animal Husbandry:

*†‡P. S. Shearer, M. S., Prof. and Head of Dept. (Coop. U. S. D. A.). *†C. Y. Cannon, Ph. D., Prof. and Head Dairy

Husb.

Animal Husbandry-Continued

- *†C. C. Culbertson, M. S., Prof. An. Husb. (Coop. U. S. D. A.).

 *†J. L. Lush, Ph. D., Prof. An. Husb. (Coop. U. S. D. A.).

 *R. S. Allen, Ph. D., Asst. Prof. Dairy *R. S. Husb.
- *†A. L. Anderson, M. S., Prof. An. Husb. ‡F. J. Arnold, M. S., Prof. Dairy Husb. ‡Rex Beresford, B. S., Prof. Livestock Mktg. *†D. V., Catron, Ph. D., Assoc. Prof. An. †Rex Beresiora, Ph. D., Assoc. Prof. An. Husb.
 †W. A. Craft, Ph. D., Prof. An. Husb.
 (Coop. U. S. D. A.).
 †R. C. Fincham, B. S., Asst. Prof. Dairy
 Husb.

 †L. N. Hazel, Ph. D., Prof. An. Husb.
 (Coop. U. S. D. A.).
 †J. B. Herrick, D. V. M., Asst. Prof. An.
 Husb.

 *†N. L. Jacobson, Ph. D., Assoc. Prof. Dairy

- *TN. L. Jacobson, Fh. D., Assoc. Prof. Burly
 Husb.

 *†Joseph Kastelic, Ph. D., Asst. Prof. An.
 Husb.

 *†E. A. Kline, M. S., Asst. Prof. An. Husb.

 *R. M. Kottman, M. S., Asst. Prof. An.
 - *V. H. Kerchberger, M. S., Asst. Prof. An. Husb.
- *W. F. LaGrange, M. S., Prof. An. Husb. ‡C. W. McDonald, M. S., Assoc. Prof. An. †‡C. W. M. Husb.
- ‡R. M. McWilliams, B. S., Asst. Prof. An. Husb
- *†R. M. Melampy, Ph. D., Prof. Dairy Husb. ‡R. M. Murley, M. S., Asst. Prof. Dairy Husb. *†A. R. Porter, M. S., Assoc. Prof. Dairy
- *†A. R. Porter, M. S., Assoc. Prof. An. Husb.

 ‡E. L. Quaife, B. S., Assoc. Prof. An. Husb.

 †D. B. Radloff, D. V. M., Asst. Prof. An.
- *†G. E. Stoddard, Pu. 2., _

 Husb.

 †D. E. Voelker, B. S., Asst. Prof. Dairy
- †D. E. Voelker, B. S., Asst. Prof. Livestock W. G. Zmolek, B. S., Asst. Prof. Livestock Mktg.

Bacteriology:

- *†C. H. Werkman, Ph. D., D. Sc., Prof. and Head of Dept. *†J. C. Ayres, Ph. D., Assoc. Prof. Bact.

Botany and Plant Pathology:

- *†W. H. Bragonier, Ph. D., Prof. and Head of
- Dept. *†J. M. Alkman, Ph. D., Prof. Bot. †A. L. Bakke, Ph. D., Prof. Bot. and Plant

- †‡L. N. Bass, Ph. D., Asst. Prof. Bot. and Plant Path.

 † W. F. Buchholtz, Ph. D., Assoc. Prof. Bot. and Plant Path.

 † S. S. Chase, Ph. D., Assoc. Prof. Bot. ‡J. M. Crall, Ph. D., Asst. Prof. Bot. and Plant Path. (Coop. U. S. D. A.).

 †‡L. E. Everson, M. S., Asst. Prof. Bot. and Plant Path.

 † J. C. Gilman, Ph. D., Prof. Bot.

 † A. H. Hagge, Bot. Collab. (Coop. U. S. D. A.).
- †A. H. Hagge, Dot. D. Asst. Prof. Bot. and †W. J. Hooker, Ph. D., Asst. Prof. Bot. and
- D. A.).

 *†W. J. Hooker, Ph. D., Asst. Prof. Bot. and Plant Path.

 *†‡Duane Isely, Ph. D., Assoc. Prof. Bot. and Plant Path.

 *†W. E. Loomis, Ph. D., Prof. Bot.

 *†J. N. Martin, Ph. D., Prof. Bot.

 †H. C. Murphy, Ph. D., Prof. Plant Path.

 (Coop. U. S. D. A.).

 *†R. W. Pohl, Ph. D., Asst. Prof. Bot. and Plant Path.

 †C. S. Reddy, Ph. D., Prof. Bot. and Plant Path.

- *†J. E. Sass, Ph. D., Prof. Bot. †George Semeniuk, Ph. D., Assoc. Prof. Bot. and Plant Path.

Botany and Plant Pathology-Continued

- †‡A. F. Sherf, Ph. D., Asst. Prof. Bot. and Plant Path.

 ††F. G. Smith, Ph. D., Assoc. Prof. Bot. and Plant Path.

 †‡D. W. Staniforth, Ph. D., Asst. Prof. Bot.

 *‡E. P. Sylwester, Ph. D., Prof. Bot. and Plant Path.

 †E. F. Vestal, Ph. D., Prof. Bot. and Plant Path.
- † Path. †J. R. Wallin, Ph. D., Plant Path. Collab. (Coop. U. S. D. A.).

Chemistry:

- *†C. A. Goetz, Ph. D., Prof. and Head of Dept. *†S. W. Fox, Ph. D., Prof. in charge Agr.

- *†S. W. Fox, Ph. D., Proj. in charge Ayr. Chem. Res.

 †R. S. Allen, Ph. D., Asst. Prof. Chem.

 *†J. F. Foster, Ph. D., Asst. Prof. Chem.

 *†Dexter French, Ph. D., Asst. Prof. Chem.

 *†W. G. Gaessler, M. S., Assoc. Prof. Chem.

 †R. E. Maxwell, Ph. D., Asst. Prof. Chem.

 †J. A. Schulz, M. S., Asst. Prof. Chem.

 †T. R. R. Sealock, Ph. D., Asst. Prof. Chem.

 †B. H. Thomas, Ph. D., Prof. Chem.

 *†L. A. Underkofler, Ph. D., Prof. Chem.

 *†Lester Yoder, M. S., Asst. Prof. Chem.

Dairy Industry:

- *†‡C. A. Iverson, M. S., Prof. and Head of Dept.
 *M. P. Baker, Ph. D., Assoc. Prof. Dairy Indus.
 *†E. W. Bird, Ph. D., Prof. Dairy Indus.
 *†W. J. Caulfield, M. S., Assoc. Prof. Dairy Indus

- *†W. J. Caulfield, M. S., Assoc. Prof. Dairy Indus.

 *†E. F. Goss, M. S., Prof. Dairy Indus.

 *†Martin Mortensen, B. S., LL. D., Prof. Dairy Indus.

 *†F. E. Nelson, Ph. D., Prof. Dairy Indus.

 *†V. H. Nielsen, B. S., Asst. Prof. Dairy Indus.

 *C. E. Parmelae, Ph. D. Asst. Prof. Dairy
 - C. E. Parmelee, Ph. D., Asst. Prof. Dairy Indus.
- ‡A. W. Rudnick, B. S., Prof. Dairy Indus. †A. F. Tamsma, Ph. D., Asst. Prof. Dairy Indus. ‡§Karl Wester, B. S., Asst. Prof. Dairy
 - Indus.

Economics (Agr.) and Sociology (Rural):

- *†‡W. G. Murray, Ph. D., Prof. and Head of
 - Dept.
 tl. W. Arthur, Ph. D., Assoc. Prof. Agr.
 Econ.

 B. D. Assoc. Prof. Agr. Econ.
 - *†R. L. Baker, Ph. D., Assoc. Prof. Agr. Econ. *†G. M. Beal, M. S., Asst. Prof. Rural Sociol. *†R. R. Beneke, Ph. D., Assoc. Prof. Agr.
 - Econ. C. Bentley, M. S., Assoc. Prof. Agr.
 - †‡R. C. Econ. T B
 - ‡L. J. Bodensteiner, B. S., Asst. Prof. Agr. Econ.

 - *†Edna Douglas, Ph. D., Assoc. Prof. Consumption Econ.

 †C. O. Greenlee, M. S., Asst. Prof. Agr. Econ.

 †E. O. Heady, Ph. D., Prof. Agr. Econ.

 †#B. B. Howell, B. S., Assoc. Prof. Agr.
 - Econ.
 - *Elizabeth E. Hoyt, Ph. D., Prof. Consump-

 - †V. L. Hurlburt, B. S., Agr. Econ. Collab. (Coop. U. S. D. A.).
 †P. J. Jehlik, B. S., Rural Sociol. Collab. (Coop. U. S. D. A.).
 *†H. R. Jensen, Ph. D., Asst. Prof. Agr. Econ.
 *†D. R. Kaldor, Ph. D., Assoc. Prof. Agr.
 - Econ
- †‡F. A. Kutish, M. S., Assoc. Prof. Agr. Econ. *†Margaret I. Liston, Ph. D., Prof. Consump-
- tion Econ.

 ‡C. C. Malone, B. S., Prof. Agr. Econ.

 ‡J. A. Nordin, Ph. D., Assoc. Prof. Agr. Econ. tW. E. Ogg, Ph. D., Assoc. Prof. Agr. Econ.

Economics (Agr.) and Sociology (Rural)-Con. *†W. R. Parks, Ph. D., Assoc. Prof. Agr.

*TW. K. Faires, I.H. E.,

Econ.

*†‡Frank Robotka, M. S., Prof. Agr. Econ.

*†G. S. Shepherd, Ph. D., Prof. Agr. Econ.

‡W. H. Stacy, Ph. D., Assoc. Prof. Rural

Sociol.

Sociol.

Schapeberg B. S., Asst. Prof. Agr.

*Sociol.

‡E. G. Stoneberg, B. S., Asst. Prof. Agr. Econ.

‡S. H. Thompson, Ph. D., Prof. Agr. Econ.

†J. F. Timmons, Ph. D., Prof. Agr. Econ.

†Gerhard Tintner, Ph. D., Prof. Agr. Econ.

†R. E. Wakeley, Ph. D., Prof. Rural Sociol.

†J. J. Wallace, B. S., Asst. Prof. Agr. Econ.

Education (Voc.-Agr.):

*†R. J. Bryan, Ph. D., Prof. and Actg. Head of Dept.

*C. E. Bundy, M. S., Asst. Prof. Agr. Ed.

*L. L. Carver, M. S., Assoc. Prof. Indus. Ed.

*†M. L. Cushman, Ph. D., Assoc. Prof. Voc.

*†M. L. Cushman, Ph. D., Assoc. Prof. Indus. Ed. Ed.

*T. C. Dean, M. S., Asst. Prof. Indus. Ed.

*T. A. Hippaka, Ph. D., Prof. Indus. Ed.

‡G. E. Holmes, M. A., Asst. Prof. Voc. Ed.

*W. H. Lancelot, D. Ed., Prof. Voc. Ed.

*J. W. Litherland, Ph. D., Assoc. Prof. Voc.

 $\dot{E}d$. *†J. B. McClelland, Ph. D., Prof. Agr. Ed.

*†Barton Morgan, Ph. D., Prof. Voc. Ed.

*T. E. Sexauer, Ph. D., Assoc. Prof. Agr. Ed.

*J. A. Starrak, D. Ed., Prof. Voc. Ed.

*Frank Wellman, M. A., Asst. Prof. Voc. Ed.

†J. E. Wert, Ph. D., Prof. Voc. Ed.

Engineering (Agr.):

Engineering (Agr.):

*†‡Hobart Beresford, B. S., A. E., Prof. and Head of Dept.

†R. E. Armstrong, B. S., Asst. Prof. Agr. Engin. (Coop. U. S. D. A.).

*Q. C. Ayres, C. E., Prof. Agr. Engin.

*†E. L. Barger, M. S., Prof. Agr. Engin.

††H. H. Beaty, M. S., Assoc. Prof. Agr. Engin.

*†E. V. Collins, B. S., Prof. Agr. Engin.

*†N. H. Curry, M. S., Assoc. Prof. Agr. Engin.

*†J. B. Davidson, B. S., A. E., D. Eng., Prof. Agr. Engin.

\$\$\frac{1}{2}\$\$ T. S., A. E., D. Eng., Prof. Agr. Engin.

\$\$\frac{1}{2}\$\$ S. DeForest, M. S., Asst. Prof. Agr. Engin.

‡S. S. Engin.

*†M. L. Esmay, M. S., Asst. Prof. Agr. Engin. *†R. K. Frevert, Ph. D., Prof. Agr. Engin. *†Henry Giese, M. S., Arch. E., Prof. Agr.

*†Henry Glese, M. S., Aich. E., 1707. Ly..

Engin.

†W. V. Hukill, B. S., Prof. Agr. Engin.

(Coop. U. S. D. A.).

†D. O. Hull, M. S., Asst. Prof. Agr. Engin.

*C. E. Johnson, M. S., Asst. Prof. Agr. Engin.

†V. J. Morford, M. S., Prof. Agr. Engin.

†J. G. Porterfield, B. S., Asst. Prof. Agr.

Engin.

‡C. H. Van Vlack, M. S., Prof. Agr. Engin.

‡N. J. Wardle, Ph. D., Asst. Prof. Agr. Engin.

Entomology-See Zoology.

Extension Administration:

‡Floyd Andre, Ph. D., Dir. ‡Murl McDonald, B. S., Assoc. Dir. ———, Asst Dir. for Outlying

Farm Program.
C. Taff, LL. D., Asst. Dir. for Rural ‡P. C. To

‡Louise M. Rosenfeld, B. S., Asst. Dir. for Home Econ.

Home Econ.

H. L. Eichling, B. S., Asst. to the Dir.

V. M. Anderson, B. S., Dist. Supvr.

F. F. Clark, B. S., Dist. Supvr.

M. V. Exner. M. A., Asst. Prof. Music.

E. F. Graff, M. S., Dist. Supvr.

Lucle Holaday, B. S., Dist. Home Econ.

Supvr.

Dee Maier, M. A., Dist. Home Econ. Supvr. J. W. Merrill, B. S., Dist. Supvr. L. T. Nutty, B. S., Dist. Supvr. Ann. Nygaard, B. S., Dist. Home Econ.

Supvr.

‡C. R. Smith, B. S., Dist. Supvr.

‡M. W. Soults, B. S., Dist. Supvr.

Extension Administration-Continued

‡Mildred K. Wellman, M. S., Dist. Home Econ. Supvr. ‡G. E. Boehnke, B. S., Asst. State Boys' 4-H

†G. B. Boenne, B. S., Asst. State Boys' 4-H Club Leader. ‡Stanley Davidson, B. S., Asst. State Boys' 4-H Club Leader. ‡Julia M. Faltinson, M. S., Asst. State Girls' 4-H Club Leader. ‡H. E. Geiger, B. S., State Older Youth Leader

Leader.

Leader.

‡R. L. Lawrence, M. A., Asst. State Boys'
4-H Club Leader.

‡G. A. Lineweaver, M. S., State Boys' 4-H
Club Leader.

‡J. N. Raudabaugh, M. S., Assoc. Prof. Ext.
Studies and Training.

‡Elizabeth Smith, M. S., Asst. State Girls'
4-H Club Leader.

‡Esther Whetstone, M. S., State Girls' 4-H
Club Leader.

‡M. I. Whorlow, M. P. H., Asst. Prof.
(Health Spec.).

Forestry:

*†G. B. Hartman, M. S., Prof. and Head Dept.

*†D. W. Bensend, Ph. D., Prof. For.

†K. A. Brinkman, M. S., For. Collab. (Coop. U. S. D. A.).

†‡R. B. Campbell, B. S., Asst. Prof. For.

†E. G. Champagne, B. S., For. Collab. (Coop. U. S. D. A.).

†R. E. Getty, B. S., Asst. Prof. For.

*†J. E. Granson, M. S., Asst. Prof. For.

*†J. E. Granson, M. S., Asst. Prof. For.

*†J. K. Kellogg, M. F., Prof. For.

*†G. B. MacDonald, M. F., D. Agr., Prof. For.

Genetics:

*†J. W. Gowen, Ph. D., Prof. and Head of Dept.

*†J. B. Griffing, Ph. D., Asst. Prof. Genetics.

†E. F. Oakberg, Ph. D., Asst. Prof. Genetics.

*†J. G. O'Mara, Ph. D., Prof. Genetics.

†Janice Stadler, M. A., Asst. Prof. Genetics.

Home Economics:

*P. Mabel Nelson, Ph. D., Dean of Div. *†Paulena Nickell, Ph. D., Assoc. Dean of Div. ‡Louise M. Rosenfeld, B. S., Asst. Dir. Home

‡Louise M. Rosenfeld, B. S., Asst. Dir. Home Econ. Ext. *†Pearl P. Swanson, Ph. D., Prof. Foods and Nutr.; Asst. Dir. Home Econ. Res. *Grace Augustine, Ph. D., Prof. and Head Institution Mgt. *†Gertrude Chittenden, Ph. D., Prof. and Head Child Development. *Mrs. Rosalie R. Craft, M. A., Prof. and Head Textiles and Clothing. *†Ercel S. Enpright Ph. D. Prof. and Head

*†Ercel S. Eppright, Ph. D., Prof. and Head Foods and Nutr.

*Florence A. Fallgatter, M. A., Prof. and Head Home Econ. Ed.

*M. S. Garfield, M. F. A., Prof. and Head Applied Art.

*†Paulena Nickell, Ph. D., Prof. and Head Home Mgt.

*Louise J. Peet, Ph. D., Prof. and Head Household Equip.

*Karlyne A. Anspach, M. A., Asst. Prof. Textiles and Clothing. *Iva L. Brandt, M. S., Prof. Textiles and Clothing.

*Lillian Brehm, M. A., Asst. Prof. Textiles and Clothing. *Irene H. Buchanan, M. S., Asst. Prof. Tex-

tiles and Clothing. *†Marie Budolfson, M. S., Assoc. Prof. Home

Mgt.*†Frances Carlin, Ph. D., Assoc. Prof. Foods and Nutr.

*Caroline Cason, M. A., Assoc. Prof. Insti-tution Mgt.

Home Economics-Continued

- *†Hester Chadderdon, Ph. D., Prof. Home
- Econ. Ed.
 *Evelyn Chapin, M. S., Asst. Prof. Home
 Econ. Ed.
- *Elizabeth Cox, Ph. D., Asst. Prof. Foods and Nutr.
- *Beatrice Donaldson, M. S., Asst. Prof. In-
- *†Florence A. Ehrenkranz, Ph. D., Assoc. Prof. Household Equip. *†Gladys J. Everson, Ph. D., Prof. Foods and
- Nutr.
 *Mabel C. Fisher, Assoc. Prof. Applied Art.
 †Fannie A. Gannon, B. S., Assoc. Prof. Home
- Mgt.
 *Edna P. Gouwens, Assoc. Prof. Applied Art.
 ‡Jewel Graham, M. S., Asst. Prof. Foods and
- Nutr. *Gladys Hamlin, M. A., Assoc. Prof. Applied
- Art.
 *G. R. Hawkes, Ph. D., Asst. Prof. Child
 Development.

 Hottler M. S., Asst. Prof.
- *§Frances M. Hettler, M. S., Asst. Prof. Foods and Nutr.
 *Norma R. Hollen, M. S., Asst. Prof. Textiles and Clothing.
 *Elizabeth E. Hoyt, Ph. D., Prof. Home

- Mgt.
 *Hildegarde Johnson, Ph. D., Asst. Prof.
 Home Econ. Ed.
 ‡Alma H. Jones, M. S., Assoc. Prof. Child
 Development.
 ‡Margaret L. Kagarice, M. S., Asst. Prof.
 Foods and Nutr.
 *Apric M. Moore M. A. Asst. Prof. Child
- *Anita M. Kezer, M. A., Asst. Prof. Child
- *Anita M. Kezer, M. A., Asst. Prof. Unua Development. *†Margaret I. Liston, Ph. D., Prof. Foods and Nutr., Home Mgt. *†Belle Lowe, M. S., Prof. Foods and Nutr. *†Mary Lyle, Ph. D., Prof. Home Econ. Ed. *Faith Madden, M. S., Assoc. Prof. House-hold Equip. *Harriet McJimsey, M. A., Asst. Prof. Tex-tiles and Clothing. *Marjory McKinley, M. A., Asst. Prof. Insti-tution Mgt.

- tution Mgt.

 *Blanche Miller, M. S., Asst. Prof. Home Econ. Ed.
- *Madge Miller, M. S., Asst. Prof. Foods and
- Nutr.
- *Edna E. Mundt, M. S., Asst. Prof. Home Econ. Ed. *Lorraline A. Myers, M. S., Asst. Prof. Foods
- and Nutr.
 *Edna O'Bryan, M. A., Prof. Applied Art.
 *Gladys T. Olson, M. S., Asst. Prof. Home
 Econ. Ed.
- *†Mattie Pattison, Ph. D., Assoc. Prof. Home $Econ.\ Ed.$
- *Christian Peterson, Assoc. Prof. Applied Art
- *Fannie Potgieter, M. A., Assoc. Prof. Tex-tiles and Clothing. ‡Lucille E. Rea, M. A., Asst. Prof. Textiles
- and Clothing.
- ‡Opal Roberson, M. A., Asst. Prof. Textiles
- *†Charlotte E. Roderuck, Ph. D., Asst. Prof. Foods and Nutr.

 *Mabel Russell, Ph. B., M. S., Assoc. Prof. Applied Art.

 *Jane Saddler, B. S., Asst. Prof. Textiles
- and Clothing
- *Mary A. Scheaffer, M. S., Asst. Prof. Home Econ. Ed. *Olive Settles, B. S., Assoc. Prof. Textiles
- and Clothing.

 Naomi D. Shank, Asst. Prof. Home Mgt.

 B. Mildred Smith, M. S., Asst. Prof. Foods
- and Nutr.
 *Marie Stephens, B. S., Assoc. Prof. Textiles
 and Clothing.
 *Lenore Sullivan, M. S., Prof. Institution
- Mgt. *Edith M. Sunderlin, M. S., Assoc. Prof. Child Development.

Home Economics-Continued

- *Lydia V. Swanson, M. S., Prof. Child De-
- velopment.
 *Nelle Thompson, M. A., Asst. Prof. Foods
- ment
- *Alice H. Waugh, B. S., Assoc, Prof. Applied Art.
- *Eleanor B. Westlund, B. S., Asst. Prof. Home Econ. Ed. †Elizabeth C. Willis, Ph. D., Assoc. Prof.

Horticulture:

- *†E. S. Haber, Ph. D., Prof. and Head of
- *†E. L. Denisen, Ph. D., Asst. Prof. Hort.
 †A. T. Erwin, M. S., Prof. Veg. Crops.
 †E. P. Lana, M. S., Asst. Prof. Veg. Crops.
 †H. L. Lantz, M. S., Assc. Prof. Pomol.
 (Coop. U. S. D. A.).
 *†H. E. Nichols, M. S., Prof. Hort.
 †C. E. Peterson, Ph. D., Assoc. Prof. Hort.
 (Coop. U. S. D. A.).
 *†S. S. Pickett, M. S., Prof. Pomol.
 †M. W. Reger, Ph. D., Asst. Prof. Veg. Crops.
 *J. C. Schilletter, Ph. D., Prof. Hort.
 †C. H. Sherwood, Ph. D., Asst. Prof. Flor.
 †R. G. Tischer, Ph. D., Assoc. Prof. Food
 Processing.
 *†E. C. Volz, M. S., Prof. Flor.

Information Service:

- ††C. R. Elder, B. S., Prof. and Dir. ††Jarles Alberg, Staff Artist. †R. C. Bentley, M. S., Assoc. Prof. and Market Editor (Radio). †R. J. Cech, B. S., Asst. Prof. and Asst.
- ‡R. J. Cech, D. S.,
 Editor.

 †‡F. E. Ferguson, B. S., Prof. and Editor,
 ‡Candace A. Hurley, B. S., Asst. Prof. and
 Asst. Editor.

 ‡H. L. Kooser, B. S., Asst. Prof. Visual

- ‡H. L. Kooser, B. S., Asst. Proj. room. Instr.
 †A. P. Parsons, B. S., Assoc. Prof. and Assoc. Editor.
 †C. M. Simon, B. S., Asst. Prof. and Assoc. Editor.
 †John Staby, Staff Photog.
 ‡Eleanor S. Wilkins, B. S., Asst. Prof. and Women's Editor (Radio).
 †D. R. Williams, B. S., Asst. Prof. and Asst. Editor
- Editor.

Journalism (Tech.):

- *‡K. R. Marvin, M. S., Prof. and Head of Dept.
 †J. P. Dodds, M. S., Asst. Prof. Tech. Journalism.
- *Rodney Fox, M. S., Prof. Tech. Journalism. ||H. E. Heath, M. S., Asst. Prof. Tech. * || H. E. Heath Journalism.
- *Donald W. Krimel, Ph. M., Asst. Prof. Tech. Journalism. *Ellen Pennell, B. S., Asst. Prof. Tech.
- Journalism.
 *J. W. Schwartz, B. S., Asst. Prof. Tech.
- Journalism.

Landscape Architecture:

- *‡J. R. Fitzsimmons, B. S., M. L. A., Prof. and Head of Dept. *P. H. Elwood, Jr., B. S., Prof. Landsc. Arch.
- *A. M. Hanson, B. S., Assoc. Prof. Landsc. Arch.
- *†R. R. Rothacker, M. S., Assoc. Prof. Landsc. Arch. Margherita Tarr, B. S., Asst. Prof. Landsc. Arch.

Poultry Husbandry:

*†‡R. E. Phillips, Ph. D., Prof. and Head of Dept. (Coop. U. S. D. A.).

‡L. Z. Eggleton, M. S., Assoc. Prof. Poultry Husb.

Poultry Husbandry-Continued

- *†R. H. Forsythe, Ph. D., Asst. Prof. Poultry Husb.
- *†E. L. Johnson, Ph. D., Assoc. Prof. Poultry Husb.
 - ‡C. D. Lee, D. V. M., M. S., Prof. Poultry
- ‡C. D. Lee, L.

 #usb.

 †A. W. Nordskog, Ph. D., Assoc. Prof.

 Poultry Husb. (Coop. U. S. D. A.).

 *Robert Penquite, Ph. D., Prof. Poultry
- R. Whitfield, B. S., Assoc. Prof. Poultry

Statistics:

- *†T. A. Bancroft, Ph. D., Prof. and Head of

- *†T. A. Bancroft, Ph. D., Prof. and Head of Dept

 *†P. G. Homeyer, M. S., Prof. Stat.

 *†E. H. Jebe, Ph. D., Assoc. Prof. Stat.

 *†R. J. Jessen, Ph. D., Prof. Stat.

 *†Oscar Kempthorne, M. A., Assoc. Prof. Stat.

 *†G. W. Snedecor, M. A., Prof. Stat.

 *†N. V. Strand, M. S., Assoc. Prof. Stat.

 (Coop. U. S. D. A.).

Veterinary Medicine:

- Veterinary Medicine:

 *†H. D. Bergman, D. V. M., Dean of Div. and
 Dir. of Vet. Res., Prof. and Head Vet.
 Physiol. and Pharmacol.

 *E. A. Benbrook, V. M. D., Prof. and Head
 Vet. Path.

 ††H. E. Biester, V. M. D., Assoc. Dir. Vet.
 Res. Institute, Prof. Vet. Res.

 *C. H. Covault, D. V. M., Prof. and Head
 Vet. Med., Dir. of Vet. Clinics.

 *M. A. Emmerson, M. S., D. V. M., Prof.
 and Head Vet. Obstetrics.

 *H. L. Foust, D. V. M., Prof. and Head
 Vet. Anat.

- *H. L. Foust, D. V. M., Prof. and Head Vet. Anat.

 *G. R. Fowler, B. S., D. V. M., Prof. and Head Vet Surg.

 *I. A. Merchant, D. V. M., Ph. D., C. P. H., Prof. and Head Vet. Hyg.

 *D. L. Baker, D. V. M., Asst. Prof. Vet. Med.

 *T. F. Bartley, Asst. Prof. Vet. Clinics.

 *P. C. Bennett, M. S., D. V. M., Supvr. Iowa Vet. Diagnostic Lab.

 *G. R. Carter, D. V. M., M. S., Asst. Prof. Vet. Hyg.
- *G. R. Carter, D. V. M., Vet. Hyg. *W. H. Chivers, D. V. M., Asst. Prof. Vet.
- *W. H. Chivers, D. V. M.,

 Surg.

 *J. R. Collier, D. V. M., Asst. Prof. Iowa

 Vet. Diagnostic Lab.

 *Robert Getty, D. V. M., M. S., Assoc. Prof.

 Vot. Anat.
- Vet. Anat. ‡J. B. Herrick, D. V. M., Asst. Prof. Vet. Med.
- *E. A. Hewitt, D. V. M., Ph. D., Prof. Vet. Physiol.

Veterinary Medicine—Continued

- Veterinary Medicine—Continued

 *†A. B. Hoerlein, D. V. M., Ph. D., Assoc.
 Prof. Vet. Res.

 *†M. S. Hofstad, D. V. M., Ph. D., Assoc.
 Prof. Vet. Res.

 *M. J. Johnson, Assoc. Prof. Vet. Clinics.

 *L. D. Jones, D. V. M., Asst. Prof. Iowa
 Vet. Diagnostic Lab.

 *L. M. Jones, D. V. M., Ph. D., Prof. Vet.
 Pharmacol.

 *†S. G. Kenzy, D. V. M., M. S., Assoc. Prof.
 Vet. Res.

 †C. D. Lee, D. V. M., M. S., Prof. Vet. Med.
 †T. S. Leith, D. V. M., Asst. Prof. An. Path.

 *R. A. Packer, D. V. M., Ph. D., Assoc. Prof.
 Vet. Hyg.

 *L. C. Payne, D. V. M., M. S., Asst. Prof.
 Vet. Physiol. and Pharmacol.

 *J. C. Pickens, Jr., Ph. D., Asst. Prof. Vet.
 Res.

 - D. B. Radloff, D. V. M., Asst. Prof. Vet.

 - T. B. Mauri, Med.
 *F. R. Ramsey, D. V. M., M. A., Assoc. Prof. Vet. Path., Vet. Anat.
 *L. H. Schwarte, D. V. M., Ph. D., Prof. Vet. Res.
 *W. Sloss. M. S., D. V. M., Asst.
- *Margaret W. Sloss, M. S., D. V. M., Asst. Prof. Vet. Path. *D. A. Smith, D. V. M., Prof. Vet. Med. *R. P. Worthman, D. V. M., Asst. Prof. Vet. Anat.

Zoology and Entomology:

- Zoology and Entomology:

 *†‡H. M. Harris, Ph. D., Prof. and Head of Dept. (State Ent.).

 †T. A. Brindley, Ph. D., Prof. Ent. (Coop. U. S. D. A.).

 †P. L. Errington, Ph. D., Prof. Econ. Zool. ‡Harold Gunderson, Ph. D., Prof. Ent.

 *†G. O. Hendrickson, Ph. D., Assoc. Prof. Wildlife Mgt.

 †E. L. Kozicky, Ph. D., Wildlife Res. Collab. (Coop. U. S. D. A.).

 *†J. H. Lilly, Ph. D., Prof. Ent.

 *‡F. B. Paddock, M. S., Prof. Ent. (State Apiarist).
- *IF. B. Paddock, M. S., Prof. Ent. (State Apiarist).

 †O. W. Park, Ph. D., Prof. Ent.

 †C. H. Richardson, Ph. D., Prof. Ent. and Econ. Zool.

 *†O. E. Tauber, Ph. D., Prof. Physiol. and Ent.

Miscellaneous:

- †Edith Barker, Assoc. Prof. Ext.

 †R. R. Bean, Admin. Asst. (Fiscal).

 ‡R. K. Bliss, B. S., Prof. Ext.

 †R. E. Buchanan, Ph. D., Prof. Agr.

 †H. H. Kildee, M. S., D. Agr., Prof. Agr.

 †R. W. Orr, M. S., Dir, of Libr.

 *R. M. Vifquain, M. S., Personnel Officer.

KANSAS

Kansas State College of Agriculture and Applied Science and the Agricultural Experiment Station, Manhattan

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence.

- *J. A. McCain, Ph. D., President.

 *†R. I. Throckmorton, M. S., Dean School of Agr., Dir. of Sta.

 ‡L. C. Williams, B. S., Dean and Dir. Div. of Eat.

 *†A. D. Weber, Ph. D., D. Sc., Assoc. Dean School of Agr., Assoc. Dir. of Sta.

 ‡P. W. Griffith, M. S., Assoc. Dean and Assoc. Dir., Div. of Ext.

 *†A. R. Jones, B. S., C. P. A., Comptroller.

Agronomy:

- *†H. E. Myers, Ph. D., Head of Dept. *†K. L. Anderson, M. S., Prof. Agron.; Pasture Mgt.
- *†C. H. Atkinson, M. S., Assoc. Prof. Agron.;
 Soil Survey.
 †M. C. Axelton, B. S., Asst. in charge SW.
 Expt. Fields (P. O., Meade).
 *†O. W. Bidwell, Ph. D., Asst. Prof. Agron.;
 Asst. in Soil Survey.

 E. G. Bidwell, B. S. Ert. Assoc. Prof.
- Asst. in Soil Survey. ‡F. G. Bieberly, B. S., Ext. Assoc. Prof. Agron.

Agronomy—Continued

- *†L. E. Call, M. S., Prof. Rural Invests.

 *†W. S. Chepil, Ph. D., Prof. Agron; Soils.

 *†A. L. Clapp, M. S., Prof. Agron.; in charge Coop. Expts.

 ‡E. A. Cleavinger, B. S., Ext. Prof. Agron.

 *†L. L. Compton, M. S., Prof. Agron.; Farm Crops.

 *†Roscoe Ellis, Jr., M. S., Instr. Agron., Soile
- Soils.
 †C. L. Englehorn, M. S., Soil Sci. (Wind Erosion: Coop. U. S. D. A.).

Agronomy-Continued

†C. L. Fly, Ph. D., Soil Sci. (Soil Survey: Coop. U. S. D. A.).

*†J. A. Goodding, M. S., Instr. Agron.; Farm

Crops. †C. O. Grandfield, M. S., Agron. (Forage Crops: Coop. U. S. D. A.). ‡Harold Harper, B. S., Ext. Asst. Prof.

Agron

*†Alice Hartley, Instr. Agron.; Dir. Seed

*†E. G. Heyne, M. S., Prof. Agron. (Plant Brdg.: Coop. U. S. D. A.).

*†J. A. Hobbs, Ph. D., Asst. Prof. Agron.;

Asst. in Soils. *†H. Laude, Ph. D., Prof. Agron.; Farm

Crops.

‡R. C. Lind, B. S., Ext. Prof. Agron.

†E. L. Mader, M. S., Assoc. Prof. Agron.;

*†E. L. Mader, M. S., Assoc. Prof. Agron.;
Farm Crops.
†W. A. Moore, B. S., Asst. in charge South
Central Expt. Fields (P. O., Kingman).
†C. W. Mullen, M. S., Assoc. Prof. Agron.,
Asst. Dean of Agr.; Asst. to Sta. Dir.
*†R. S. Nickelson, M. S., Instr. Agron.; Crops.
†L. B. Olmstead, Ph. D., Soil Physicist
(Soils: Coop. U. S. D. A.).
*†R. V. Olson, Ph. D., Prof. Agron.; Soils.
*†C. B. Overley, B. S., Asst. Prof. Agron.;
Farm Crops.

*†C. B. Overley, B. S., Asst. Prof. Agron.;

*†C. B. Overley, B. S., Asst. Prof. Agron.;

*Farm Crops.

*V. E. Peterson, M. S., Asst. in charge

SE. Expt. Fields (P. O., Thayer).

*†R. C. Pickett, Ph. D., Asst. Prof. Agron.;

Pasture Mgt.

†R. F. Sloan, M. S., Asst. in charge North

Central Expt. Fields (P. O., Belleville).

*†F. W. Smith, Ph. D., Prof. Agron.; Soils.

*†L. A. Tatum, Ph. D., Prof. Agron.; Soils.

*†L. A. Tatum, Ph. D., Prof. Agron.; Plant

Brdg. (Coop. U. S. D. A.).

†Dale Weibel, M. S., Asst. Agron. (Crop

Improvement: Coop. U. S. D. A.).

‡L. E. Willoughby, B. S., Ext. Prof. Agron.

†V. W. Woestemeyer, B. S., Asst. in charge

Bindweed Expt. Field (P. O., Canton).

†N. P. Woodruff, B. S., Agr. Engin. (Wind

Erosion: Coop. U. S. D. A.).

*†J. W. Zahnley, M. S., Prof. Agron.; Farm

Crops.

†A. W. Zingg, B. S., Senior Agr. Engin. (Wind Erosion: Coop. U. S. D. A.).

Animal Husbandry:

*†R. F. Cox, Ph. D., Head of Dept. *†C. E. Aubel, Ph. D., Prof. An. Husb.; Swine

*†C. E. Aubel, Ph. D., Prof. An. Haso., Spec.

*†F. W. Bell, B. S., Prof. An. Husb.; Beef
Cattle Invest.

*†T. D. Bell, Ph. D., Prof. An. Husb.; Sheep.

*†R. B. Cathcart, M. S., Assoc. Prof. An.
Husb.; An. Husb. Spec.

‡C. G. Elling, B. S., Ext. Prof. An. Husb.;

*†D. L. Good, B. S., Asst. Prof. An. Husb.;
in charge of Judging.

*†H. L. Ibsen, Ph. D., Prof. An. Husb.;
Geneticist.

Geneticist.

*†D. L. Mackintosh, M. S., Prof. An. Husb.;

Meat Spec.

*†E. P. Margerum, Jr., M. S., Asst. Prof. An.

Husb.; Meats.

†C. W. McCampbell, B. S., D. V. M., Prof.

An. Husb.; An. Husb. Invest.

†M. B. Powell, M. S., Ext. Asst. Prof. An.

Husb.; Husb.; Meats.

An. Husb.; An. Husb. Invest.

M. B. Powell, M. S., Ext. Asst. Prof. An.
Husb.

†E. F. Smith, M. S., Asst. Prof. and An.
Husb. Invest.

†W. H. Smith, M. S., Asst. Prof. An. Husb.;
An. Brdg.

‡L. F. Taylor, M. S., Ext. Assoc. Prof. An.
Husb.

Bacteriology:

*†P. L. Gainey, Ph. D., Head of Dept. *†L. D. Bushnell, Ph. D., Prof. Bact.; Poultry

*†L. E. Erwin, Ph. D., Assoc. Prof. Bact.;
Poultry Bact.
*†V. D. Foltz, M. S., Prof. Bact.; Food Bact.

Bacteriology-Continued

*†J. O. Harris, Ph. D., Assoc. Prof. Bact.; Soil Bact. *†W. A. Miller, Ph. D., Asst. Prof. Bact.; Food Bact.

43

Botany and Plant Pathology:

*†L. E. Melchers, M. S., Head of Dept.

†O. H. Elmer, Ph. D., Assoc. Prof. Bot. and Plant Path.; Assoc. Plant Path. in Cereal Invest. (Coop. U. S. D. A.).

†Hurley Fellows, Ph. D., Prof. Bot.; Plant Physiol.

*†J. C. Frazier, Ph. D., Prof. Bot.; Plant Physiol.

*†F. C. Gates, Ph. D., Prof. Plant Taxonomy and Ecol.; Taxonomist.
*†E. D. Hansing, Ph. D., Prof. Bot.; Plant Path.

†C. O. Johnston, M. S., Path. in Cereal Invest. (Coop. U. S. D. A.). ‡Claude King, B. S., Ext. Asst. Prof. Plant

Path.
*†C. T. Rogerson, Ph. D., Asst. Prof. Bot.; Mycol.

Chemistry:

*†R. E. Silker, Ph. D., Head of Dept. *†J. S. Hughes, Ph. D., Prof. Biochem.; in charge An. Nutr. *†H. N. Barham, Ph. D., Prof. Chem.; Indus.

Chem

*†R. E. Clegg, Ph. D., Assoc. Prof. Chem.;
Pouttry Chem.
*†J. L. Hall, Ph. D., Assoc. Prof. Chem.;
Meat Invest.

*†D. G. Kundiger, Ph. D., Asst. Prof. Chem.;

*†D. G. Kundiger, Ph. D., Asst. Prof. Chem.; Organic Chem.
†G. A. McCaskill, B. S., Asst. Indus. Chem.
†J. F. Merrill, B. S., Asst. Chem.
†H. L. Mitchell, Ph. D., Asst. Prof. Chem.; Asst. Nutr. Chem.
†D. B. Parrish, Ph. D., Asst. Prof. Chem.; Asst. Nutr. Chem.
†A. T. Perkins, Ph. D., Prof. Chem.; Soil Invest. and in charge Anal. Lab.
†S. N. Rogers, B. S., Asst. Chem.
†W. G. Schrenk, Ph. D., Assoc. Prof. Chem.; Indus. Chem.

†W. G. Schrenk, Ph. D., Assoc. Prof. Unem.; Indus. Chem.
*†D. B. Sharp, Ph. D., Assoc. Prof. Chem.; Org. Chem.
†E. S. Stickley, M. S., Asst. Indus. Chem.
*†C. H. Whitnah, Ph. D., Assoc. Prof. and Asst. Chem.

Chemical Engineering:

*†H. T. Ward, Ph. D., Head of Dept.

*†\$W. H. Honstead, M. S., Assoc. Prof. and

*†R. G. Taecker, Ph. D., Assoc. Prof. and

Assoc. Chem. Engin.

*†G. D. Shilling, Ph. D., Asst. Prof. and

Asst. Chem. Engin.

Dairy Husbandry:

Dairy Husbandry:

**F. W. Atkeson, M. S., Head of Dept.

**TE. E. Bartley, Ph. D., Asst. Prof. Dairy Husb.; Dairy Prod.

**G. H. Beck, Ph. D., Prof. Dairy Husb.; E. R. Bonewitz, B. S., Ext. Asst. Prof. Dairy Husb.

**Sw. H. Chilson, M. S., Assoc. Prof. Dairy Husb.; Dairy Myfs.

**T. J. Claydon, Ph. D., Assoc. Prof. Dairy Husb.; Assoc. in Dairy Myfs.

**T. E. Eldridge, Ph. D., Assoc. Prof. Dairy Husb.; Dairy Prod.

**E. L. Farmer, B. S., Asst. Prof. Dairy Husb.; Dairy Improvement.

**C. F. Foreman, M. S., Ext. Asst. Prof. Dairy Husb.; Dairy Husb.;

**T. C. Fountaine, Ph. D., Prof. Dairy Husb.; Poliry Prod.

**West. Asst. Prof. Dairy Husb.; Dairy Prod.

Dairy Prod.

†W. J. Leland, M. S., Instr. Dairy Husb.;
Supt. Coll. Creamery.

‡J. W. Linn, B. S., Ext. Prof. Dairy Husb.

Dairy Husbandry-Continued

*†W. H. Martin, M. S., Prof. Dairy Husb.; in

charge Dairy Mfrs.

*†A. N. Moeller, M. S., Asst. Prof. Dairy
Husb.; Dairy Improvement.

*†H. L. Mudge, B. S., Instr. Dairy Husb.;
Dairy Improvement.

Economics and Sociology:

*†George Montgomery, M. S., Head of Dept. *†R. C. Hill, Ph. D., Prof. Sociol.; Rural Sociol.

tC. E. Bartlett, B. S., Ext. Asst. Prof. Agr. Econ., Farm Mat. (P. O., Clay Center).

†C. F. Bortfeld, M. A., Assoc. Prof. Agr. Econ.; Farm Mgt.

†§E. N. Castle, M. S., Asst. Prof. Agr. Econ.;

Farm Mgt.

‡M. B. Clark, B. S., Ext. Asst. Prof. Agr. Econ., Farm Mgt. (P. O., Paola).

‡J. H. Coolidge, M. S., Ext. Prof. Agr. Econ.,

Farm Mgt. *†R. J. Doll, Ph. D., Prof. Agr. Econ.; Farm

Mgt.*†F. D. Farrell, D. Agr., Prof. Rural Institu-

tions

‡G. W. Gerber, B. S., Ext. Asst. Prof. Agr. Econ., Mktg.

†J. A. Hodges, Ph. D., Prof. Agr. Econ.; *†J. Farm Mgt.

*†\$L. M. Hoover, M. S., Farm Mgt.

**P M. Hoss, B. S., Ext. Asst. Prof. Agr.

‡R. M. Hoss, B. S., Ext. Asst. Proj. Agr. Econ., Mkty.

*†Harold Howe, Ph. D., Prof. Agr. Econ.;
Land Econ., Dean School of Grad. Study.

‡C. R. Jaccard, B. S., Ext. Prof. Agr. Econ.,
Agr. Planning.

*†P. L. Kelley, M. S., Asst. Prof. Agr. Econ.;

*†P. L. Kelley, M. S., Asst. Prof. Agr. Econ.;

Mktg. Invest. (Dairy, Poultry, Fruits,

Vegs.).

*†P. A. V.

*†D. A. Knight, M. S., Asst. Prof. Agr. Econ.; Farm Mgt.

*†H. R. Kopper, M. S., Asst. Prof. Agr. Econ.; Farm Mgt.

*†J. W. Koudele, M. S., Asst. Prof. Agr.

*†J. W. Koudele, M. S., Asst. Prof. Agr. Econ., Poultry Mktg.

†H. C. Love, B. S., Ext. Asst. Prof. Agr. Econ., Farm Mgt.

*†M. L. Manuel, M. S., Assoc. Prof. Agr. Econ.; Coop. Mktg.

*†J. H. McCoy, M. S., Asst. Prof. Agr. Econ.; Mktg. Invest.

‡Earl Means, B. S., Ext. Asst. Prof. Agr. Econ., Farm Mgt. (P. O., Holton).

†D. A. Nimer, A. M., Ext. Instr. Agr. Econ., Home Study Service.

†O. W. Norby, B. S., Ext. Asst. Prof. Agr. Econ., Farm Mgt. (P. O., Colby).

*†M. L. Otto, M. S., Assoc. Prof. Agr. Econ.; Agr. Finance.

Agr. Finance.

\$M. W. Pearce, B. S., Ext. Asst. Prof. Agr.
Econ. Farm Mgt. (P. O., Hutchinson).

*†\$W. H. Pine, Ph. D., Prof. Agr. Econ.; Land

*†H. M. Riley, M. S., Asst. Prof Agr. Econ.; Livestock Mktg.

†L. W. Schruben, Ph. D., Assoc. Prof. Agr. Econ.; Grain Mktg.

†O. J. Scoville, M. S., Agr. Econ., Farm Mgt. (Copp. U. S. D. A.)

‡J. F. Smerchek, B. S., Ext. Asst. Prof. Agr. Econ., Farm Mgt. (P. O., Greensburg).

†N. V. Whitehair, B. S., Ext. Asst. Prof. Agr. Econ., Mktg.

*†C. P. Wilson, M. S., Assoc. Prof. Agr. Econ.; Mktg. Invest. (Livestock).

Editorial-See Journalism.

Education (Agr.):

*H. L. Baker, Ph. D., Head of Dept.

*A. P. Davidson, M. S., Prof. Voc. Ed.

*L. F. Hall, M. S., Assoc. Prof. Voc. Ed.

‡J. M. Schall, A. M., Ext. Prof. Ed., in charge Home Study Service.

Engineering (Agr.):

*†F. C. Fenton, M. S., Head of Dept. *†E. R. Chubbuck, M. S., Instr. and Asst. in

Agr. Engin. ‡J. M. Ferguson, B. S., Ext. Prof Agr. En-

gin. in charge. . L. Kugler, M. S., Assoc. Prof. Agr.

Engin.

Floyd Pattison, M. S., Ext. Prof. Mech.
Engin, Home Study Service.

H. H. Ramsour, B. S., Ext. Instr. Agr.

Engin.Walter Selby, B. S., Ext. Asst. Prof. Agr.

Engin. ‡H. E. Stover, B. S., Ext. Assoc. Prof. Agr.

†W. T. Trent, M. S., Agt. (Rural Electrifi-cation: Coop. U. S. D. A.). ‡L. T. Wendling, B. S., Ext. Asst. Prof. Agr.

Entomology:

*†R. C. Smith, Ph. D., Head of Dept. *†H. R. Bryson, M. S., Assoc. Prof. Ent.; Staple Crop Invest. *†P. A. Dahm, Ph. D., Assoc. Prof. and As-

*†E. L. Eshbaugh, B. S., Instr. and Asst. Ent. (P. O., Wathena).
*†W. W. Franklin, M. S., Instr. and Asst. in

Ent.‡D. E. Gates, B. S., Ext. Asst. Prof. Ent. *†R. H. Painter, Ph. D., Prof. Ent.; Staple

*†R. L. Parker, Ph. D., Prof. Apiculture and Ent.; Ent. (State Apiarist).

*†D. A. Wilbur, M. A., Prof. Ent.; Staple Crop Invest.

Extension Administration:

‡L. C. Williams, B. S., Dir. ‡P. W. Griffith, M. S., Ext. Assoc. Dir., in charge Agr. Spec. ‡A. L. Hjort, Ext. Admin. Asst. ‡H. C. Baird, B. S., Ext. Assoc. Prof., Dist.

Agt. ‡F. O. Blecha, M. S., Ext. Prof., Dist. Agt. ‡O. B. Glover, B. S., Ext. Assoc. Prof., Dist. Supvr.

‡Frank Hagans, B. S., Ext. Asst. Prof., Dist. Supvr.

‡Velma G. Huston, M. S., Ext. Assoc. Prof., Dist. Agt. ‡L. F. Neff, B. S., Ext. Assoc. Prof., Dist.

Dist. Agt.

†L. F. Neff, B. S., Ext. Assoc. Prof., Dist. Supvr.

‡E. H. Teagarden, B. S., Ext. Assoc. Prof., Dist. Agt.

†Georgiana H. Smurthwaite, M. S., Ext. Assoc. Prof., State Home Dem. Leader.

†Margaret K. Burtis, M. S., Ext. Assoc. Prof., Dist. Home Dem. Agt.

‡Ella M. Meyer, B. S., Ext. Asst. Prof., Dist. Home Dem. Agt.

‡J. H. Johnson, M. A., Ext Prof., State Club Leader.

†Aary E. Border, M. A., Ext. Assoc. Prof., Asst. State Club Leader.

‡G. M. Busset, B. S., Ext. Asst. Prof., Asst. State Club Leader.

‡J. B. Hanna, B. S., Ext. Instr., Asst. State Club Leader.

‡Velma McGaugh, B. S., Ext. Asst. Prof., Asst. State Club Leader.

‡R. E. Regnier, M. S., Ext. Assoc. Prof., Asst. State Club Leader.

‡R. E. Regnier, M. S., Ext. Assoc. Prof., Asst. State Club Leader.

Home Economics:

*†Margaret M. Justin, Ph. D., Dean of School.
*†Alpha C. Latzke, M. S., Prof. and Head Dept. of Clothing and Textiles.
*†Florence E. McKinney, Ph. D., Prof. and Head Dept. of Household Econ.
*Lois R. Schulz. Ph. D., Prof. and Head Dept. of Child Welfare and Euthenics.

Home Economics-Continued

*†Gladys E. Vail, Ph. D., Prof. and Head Dept. of Foods and Nutr.; Dir. Home Econ. Res. *†A. Tessie Agan, M. S., Assoc. Prof. and Assoc. Household Econ. ‡Gertrude E. Allen, M. S., Ext. Prof. Foods

and Nutr.

‡Kate C. Archer, B. S., Ext. Instr. Home
Furnishings.

Furnishings.

*†Leah Ascham, Ph. D., Prof. Foods and Nutr.; Food Econ.

*†Mrs. Jane W. Barnes, M. S., Asst. Prof. and Asst. Household Econ.

‡Ellen M. Batchelor, B. S., Ext. Asst. in Home Econ.

‡Vivian Briggs, B. S., Ext. Instr. Family Late.

*Martha Brill, B. S., Ext. Asst. Prof. Home Health and Sanitation.

*†Helen E. Clark, M. S., Asst. Prof. Foods; Invest. Foods and Nutr.

*†Esther M. Cormany, M. S., Assoc. Prof. and Invest. in Clothing and Textiles.

*†Mrs. Myrtle G. Correll, A. M., Assoc. Prof. and Invest. in Household Econ.

*†Barbara Densmore, M. S., Instr. and Invest. in Clothing and Textiles.

‡Vera M. Ellithorpe, M. S., Ext. Assoc. Prof. Home Mgt.

‡Mary G. Fletcher, M. S., Ext. Assoc. Prof. Foods and Nutr.

Foods and Nutr. ‡Virginia L. Green, B. S., Ext. Instr. Rec-

reation.

*†Dorothy L. Harrison, Ph. D., Assoc. Prof. Foods and Nutr.; Assoc. Food Econ.

‡Naomi Johnson, M. S., Ext. Assoc. Prof. Clothing and Textiles.

†Katherine G. Johnston, M. S., Asst. in Foods and Nutr.

*Martha M. Kramer, Ph. D., Assoc. Prof. Foods and Nutr. Foods and Nutr.

*†Abby L. Marlatt, Ph. D., Assoc. Prof. Foods and Nutr.; Foods and Nutr.

*Eva M. McMillan, M. S., Assoc. Prof. Foods and Nutr.

and Nutr.

‡Gladys Myers, M. S., Ext. Assoc. Prof. Home Mgt.
‡Elizabeth Randle, M. S., Ext. Asst. Prof. Foods and Nutr.

‡Ada M. Ridgway, M. S., Instr. and Invest. Foods and Nutr.
‡Ethel W. Self, B. S., Ext. Instr. Home

Mgt.

*†Gwendolyn L. Tinklin, M. S., Asst. Prof. Home Econ.; Foods and Nutr. *†Beulah D. Westerman, Ph. D., Prof. Foods;

Foods and Nutr.

Christine Wiggins, M. A., Ext Assoc.

Prof. Clothing and Textiles.

Horticulture:

*†W._F. Pickett, Ph. D., Prof. and Head of Dept.

†Erwin Abmeyer, B. S., Supt. NE. Expt. Fields (P. O. Wathena).
‡W. G. Amstein, M. S., Ext. Prof. Hort.
*†R. W. Campbell, M. S., Assoc. Prof. Hort.;

Pomol P. E. Collins, M. S., Ext. Asst. Prof. Farm

For. S. Coryell, M. S., Asst. Prof. Hort.;

‡M. B. Miller, B. S., Ext. Instr. Hort., Home Study Service.

C. E. Parks, B. S., Ext. Asst. Prof. Landsc. Arch.

*†L. R. Quinlan, B. S., M. L. A.; Prof. Hort.; in charge Landsc. Gard.
*†C. C. Singletary, Ph. D., Asst. Prof. Hort.;

*H. E. Wichers, M. S., Prof. Rural Arch. *†W. W. Willis, B. S., Asst. Prof. Hort.; Flor.

Illustrations:

*F. J. Hanna, Head of Dept.

Journalism:

*R. R. Lashbrook, M. S., Prof. and Head of Dept.

Paul DeWeese, B. S., Ext. Instr., Asst. Pro-

gram Supvr. ‡Miriam L. Dexter, M. S., Asst. Prof., Asst.

Ext. Editor.

*B. E. Ellis, M. A., Assoc. Prof. Indus. Journalism, Supt. of Press.

‡R. D. Hilgendorf, M. S., Ext. Instr., Pro-

T. D. Hilgendorf, M. S., Ext. Instr., Program Supvr.
Mrs. Eula M. C. Kelly, M. S., Asst. Prof., Asst. Ext. Editor
L. L. Longsdorf, M. S., Prof., Ext. Editor and Radio Program Dir.
E. B. Macy, M. S., Asst. Prof. Indus. Journalism; Sta. Editor.
H. G. Shankland, B. S., Assoc. Prof., Assoc. Ext. Editor.

Ext. Editor. ‡E. D. Warner, B. S., Assoc. Prof., Assoc. Ext. Editor.

Mathematics:

*†H. C. Fryer, Ph. D., Prof. Math.; in charge Sta. Lab.

Milling Industry:

*†J. A. Shellenberger, Ph. D., Head of Dept.
(Coop. U. S. D. A.).

†E. P. Farrell, B. S., Milling Tech., Milling Indus., Milling Technol. Invest.

*†K. F. Finney, M. S., Prof. Milling Indus.;
Chem., Hard Winter Wheat Regional Lab. (Coop. U. S. D. A.).

*†D. E. Fleming, B. S., Instr. Milling Indus.;
Milling Technol. (Coop. U. S. D. A.).

*†J. A. Johnson, M. S., Assoc. Prof. Milling Indus.; Assoc. in Milling and Baking Res.

Res.

†J. F. McCammon, B. S., Asst. Chem., Hard Winter Wheat Regional Lab. (Coop. U. S.

D. A.).
S. Miller, Ph. D., Assoc. Prof. and Chem., Hard Winter Wheat Regional Lab. (Coop. U. S. D. A.).
D. Miller, M. S., Asst. Prof. Milling Indus., Cereal Chem. (Coop. U. S. D. A.).

*†Max Milner, Ph. D., Prof. Milling Indus.;

Cereal Chem.

*†R. O. Pence, M. S., Assoc. Prof. Milling Indus.; Milling Technol. *†A. B. Ward, B. S., Asst. Prof. Milling Indus.; Milling Technol.

Physics:

*†A. B. Cardwell, Ph. D., Head of Dept. *†R. E. Dragsdorf, Ph. D., Asst. Prof. Phys.; Soil Phys. *†S. E. Whitcomb, Ph. D., Prof. Phys.; Infra-

red Spectroscopy.

Poultry Husbandry:

*†L. F. Payne, M. S., Head of Dept. *†T. B. Avery, M. S., Prof. Poultry Husb.; Stabilization Poultry Fat. ‡M. E. Jackson, B. S., Ext. Asst. Prof. Poul-

try Husb. *†C. D. Mueller, Ph. D., Prof. Poultry Husb.; Geneticist.

*†P. E. Sanford, Ph. D., Asst. Prof. Poultry Husb.; Market Poultry and Eggs. ‡M. A. Seaton, B. S., Ext. Prof. Poultry

Husb.

Veterinary Medicine:

*†E. B. Leasure, M. S., D. V. M., Dean of School, Prof. Physiol.

*†L. M. Roderick, D. V. M., Ph. D., Head Dept. of Path.

*†R. R. Dykstra, D. V. M., Prof. Surg.

*†R. L. Jewell, D. V. M., Asst. Prof. Path.; Anthelminitics.

*†C. H. Kitselman, V. M. D., M. S., Prof. Path.; Virus Disease Invest.

Veterinary Medicine-Continued

*J. W. Lumb, M. S., D. V. M., Assoc. Prof. Vet. Anat.

†E. J. Splitter, D. V. M., Asst. Prof. Path.; Anaplasmosis Disease Invest.

†M. J. Swenson, Ph. D., D. V. M., Asst. Prof. Physiol.; An. Physiol. Invest.

†M. J. Twiehaus, M. S., D. V. M., Prof. Path.; Brucellosis Invest.

Zoology:

*†D. J. Ameel, Ph. D., Head of Dept. *†J. E. Ackert, Ph. D., Prof. Zool.; Parasit. *†H. T. Gier, Ph. D., Assoc. Prof. Zool.; MammalInvest

*†A. M. Guhl, Ph. D., Assoc. Prof. and Asst. Zool.

*†M. F. Hansen, Ph. D., Asst. Prof. Zool.;
Asst. Parasit.

*†Mary T. Harman, Ph. D., Prof. Zool.; Zool.

†E. H. Herrick, Ph. D., Prof. Zool.; Mammalogist

malogist.
†L. H. Petri, M. A., Instr. and Tech. in Zool.
†Florence M. Stebbins, M. S., Asst. Zool.

Miscellaneous:

*W. F. Baehr, Ph. D., Libr. *Grace E. Derby, A. B., Assoc. Libr.

Branch Stations:

Colby-

U.S. D. A.).
J. B. Kuska, B. S., Agron. in Soils, Fert. and Irrig. (Coop. U. S. D. A.).

Branch Stations-Continued

Fort Hays, P. O. Hays—
L. C. Aicher, B. S., Supt.
W. M. Baxter, B. S., Asst. to Supt.
P. L. Brown, M. S., Asst. Agron. in Soils,
Fert. and Irrig. (Coop. U. S. D. A.).
Alfred Casady, B. S., Agt. Cereal Crops
and Diseases (Coop. U. S. D. A.).
W. W. Duitsman, B. S., Asst. Supt.
F. B. Kessler, B. S., An Husb.
F. E. Meenen, M. S., Asst. in Forage Crop
Invest.

W. L. P L. Phillips, M. S., Asst. Agron, in Bindweed Control Invest. (Coop. U. S.

W. L. Fillings, M. S., Asst. Agron. S. Bindweed Control Invest. (Coop. U. S. D. A.).

A. F. Swanson, M. S., Agron. in Cereal Crop Invest. (Coop. U. S. D. A.).

Garden City—
A. B. Erhart, B. S., Supt.
C. W. Carlson, B. S., Asst. Agron. in Irrig. Invest.
B. L. Grover, B. S., Asst. Agron.
A. E. Lowe, M. S., Asst. Agron. (Coop. U. S. D. A.).

Walter Meyer, B. S., Assoc. Agr. Engin. (Coop. U. S. D. A.).
W. L. Rock, B. S., Junior Agron. in Soils, Fert., and Irrig. (Coop. U. S. D. A.).

Mound Valley—
F. E. Davidson, M. S., Supt.
L. C. Jones, B. S., Asst. Agron.
J. E. Knox, B. S., Asst. Dairy Husb.

Tribune—

The Stinger R. S. Sunt.

T. B. Stinson, B. S., Supt.

KENTUCKY

College of Agriculture and Home Economics, and the Agricultural Experiment Station of the University of Kentucky, Lexington 29

*College faculty. †Station staff. ‡Extension staff. Leave of absence.

*H. L. Donovan, Ph. D., LL. D., President of University.

*†‡T. P. Cooper, B. S. A., D. Sc., LL. D., Dean Coll. of Agr. and Home Econ., Dir.

of Sta., Dir. of Est.

*L. J. Horlacher, M. S., Asst. Dean of Resident Teaching, Coll. of Agr. and

*L. J. Home Econ.

‡T. R. Bryant, M. S., Asst. Dir. of Ext. *†‡F. D. Peterson, A. B., Comptroller.

Agronomy:

*† IM._E. Weeks, Ph. D., Prof. and Head of

† ‡M. E. Weeks, Fh. D., 1777.

† C. M. Austin, A. B., Asst. Chem.

† C. E. Bortner, M. S., Assoc. Agron.

† R. C. Buckner, M. S., Asst. Agron.

*† Stephen Diachun, Ph. D., Asst. Prof. and

Plant Path.

*† E. N. Fergus, Ph. D., Prof. Farm Crops;

Agron. in charge Pastures and Forage

Grons

‡R. L. Flannery, M. S., Field Agt. in Agron. †K. E. Flowers, B. S., Asst. Agron. †J. F. Freeman, M. S., Assoc. Agron., Supt.

†J. F. Freeman, M. S., Assoc. Agron., sup. Sta. Farm.
†J. S. Harrison, B. S., Asst. Agron.
†Lawrence Henson, M. S., Assoc. Agron. in Forage Crops Invest.
†F. G. Houston, Ph. D., Asst. Chem.
‡R. A. Hunt, M. S., Field Agt. in Tobacco.
†E. M. Johnson, Ph. D., Plant Path.
‡W. C. Johnstone, B. S., Field Agt. in Agron.
†L. M. Josephson, Ph. D., Assoc. Agron.
in Soil Technol.

in Soil Technol.
‡Ralph Kenney, B. S., Field Agt. in Agron.
‡L. B. Leonard, B. S., Field Agt. in Soil
Conserv.

†L. A. Link, B. S., Asst. Agron.
†H. F. Miller, B. S., Asst. Agron.
*P. M. Phillippe, Ph. D., Assoc. Prof. Farm
Orops.
†D. A. Reid, M. S., Assoc. Agron.
*†W. A. Seay, Ph. D., Asst. Prof. Soils;
Asst. Agron.

Agronomy-Continued

†R. E. Sigafus, Ph. D., Asst. Agron. *‡W. G. Survant, M. S., Asst. Prof. and Field

** W. G. Survant, M. S., Asst. Prof. and Field Agt. in Soils.

†R. M. Thaxton, M. S., Asst. Agron.

†J. R. Todd, M. S., Asst. Agron.

*†W. D. Valleau, Ph. D., Prof. Plant Path.;

Plant Path.

†E. E. Witt, B. S., Asst. in Agron.

†L. K. Wood, Ph. D., Spectographer and Res Chem.

†L. K. Wood, Ph. D., Res. Chem. †C. E. Wyatt, B. S., Field Agt. in Test Dem.

Animal Industry:

*†‡W. P. Garrigus, Ph. D., Prof. An. Husb.; in charge An. Husb. Sect. and Chair. of charge An. Husb. Sect. and Chair. of Group.

†G. D. Buckner, Ph. D., Chem. in charge An. Nutr. Sect.

†‡W. M. Insko, Jr., M. S., Prof. Poultry Husb.; in charge Poultry Sect.

†D. M. Seath, Ph. D., Prof. Dairy Husb. in charge Dairy Sect.

†D. G. Steele, Ph. D., Prof. Genetics; in charge Genetics Sect.

†E. J. Wilford, M. S., Prof. An. Husb., in charge Meats Lab.; Asst. An. Husb.

‡J. O. Barkman, B. S., Asst. Prof. and Field Agt. in Dairy Mfrs.

†C. E. Barnhart, M. S., Asst. Prof. and Asst. An. Husb.

†G. M. Bastin, B. S., Supt. Expt. Sta. Dairy.

†John Begin, M. S., Asst. Field Agt. in Poultry Improvement.

Animal Industry—Continued

*†L. J. Bush, M. S., Asst. in Dairying. ‡J. E. Couey, M. S., Field Agt. in Dairying. †T. G. Culton, Ph. D., Asst. in Poultry. *†Emmitt Dozier, Jr., M. S., Instr. Dairying;

Supt. of Creamery.

W. Dunning, M. S., Field Agt. in Cream

Grading.

Grading.
†R. H. Dutt, Ph. D., Asst. An. Husb.
*†R. F. Elliott, Ph. D., Asst. Prof. and Asst. in Dairy Husb.
‡J. W. Foster, B. S., Field Agt. in Dairying.
*†T. R. Freeman, Ph. D., Assoc. Prof. Dairying; Assoc. in Dairy Mfrs.
‡C. E. Harris, B. S., Field Agt. in Poultry.
†Mrs. Amanda H. Henry, B. S., Asst. in An. Nutr

Nutr.

†R. C. Hopper, B. S., Field Agt. in An. Husb. *L. J. Horlacher, M. S., Prof. An. Husb. †J. E. Humphrey, B. S., Field Agt. in Poul-

try. . L. King, B. S., Field Agt. in Cream

†W. L. King, B. S., Field Age. in Cream
Grading,
†D. W. MacLaury, M. S., Asst. in Poultry
Husb.
†J. W. Matthews, M. S., Field Agt. in Poultry Improvement.
†E. A. McDavitt, B. S., Field Agt. in Cream

Grading.

‡R. C. Miller, M. S., Field Agt. in An. Husb. *†H. B. Morrison, Ph. D., Prof. and Assoc. in

Dairying.

Durward Olds, D. V. M., Asst. in Dairying.

H. G. Sellards, B. S., Field Agt. in An.

*Durward Court # H. G. Sellards, B. S., Field Ag. ...

*† W. E. Thomas, Ph. D., Asst. Prof. and Asst. in An. Husb.

† Mrs. Elizabeth Wachs, Tech. in An. Nutr.

*† E. T. Wightman, M. S., Assoc. Prof. and Asst. in Poultry.

‡G. E. Williamson, B. S., Field Agt. in Pairvina.

*†Patch Woolfolk, Ph. D., Asst. Prof. and Asst. in An. Husb.

Animal Pathology:

Animal Pathology:

*†‡F. E. Hull, D. V. M., Prof. Vet. Sci. and Head of Dept.

†Frances Arbogast, M. S., Asst. Parasit.

*†R. G. Brown, M. S., D. V. M., Assoc. Prof. Vet. Sci.; Assoc. Vet.

†Mrs. Dorothy Crowdus, M. S., Asst. Parasit.

†E. R. Doll, D. V. M., Vet.

†Mrs. Alice K. Hopson, B. S., Asst. Bact.

†J. W. Mandia, M. S., Asst. Bact.

†W. H. McCollum, M. S., Asst. Bact.

†Alice B. Moran, M. S., Assoc. Bact.

†K. R. Reinhard, D. V. M., Ph. D., Asst. Parasit.

†W. J. Stone, M. S., Asst. Parasit.

† Parasıt.
† V. J. Stone, M. S., Asst. Parasit.
† A. C. Todd, Ph. D., Parasit.
† Elizabeth M. Wallace, M. S., Asst. Bact.
† Mary A. Williams, M. S., Asst. Path.
† Mrs. Zae N. Wyant, M. H. E., A. M., Tech.

Botany-See Entomology.

Economics (Farm):

*†‡W. D. Nicholls, Ph. D., Prof. Farm Mgt. and

Head of Dept.

†W. B. Back, M. S., Asst. in Farm Mgt.

†J. H. Bondurant, Ph. D., Econ. in Farm Econ.

*L. A. Bradford, M. S., Prof. Farm Mgt.
†G. B. Byers. Ph. D., Econ in Farm Econ.
†J. E. Criswell, M. S., Asst. in Farm Mgt.
‡E. F. Daniel, M. S., Field Agt. in Farm Mgt.
*†G. L. Johnson, Ph. D., Assoc. Prof. and

Assoc. Econ.

†P. S. McComas, Ph. D., Assoc. Prof. and
Assoc. Farm Econ.

†E. J. Nesius, Ph. D., Assoc. Econ. in Farm

Econ.
†K. R. Vice, B. S., Asst. in Farm Mgt.
‡H. M. Young, M. S., Field Agt. in Farm Mgt.

Editorial:

‡C. A. Lewis, B. S., Editor. ‡R. H. Ford, B. S., in charge Radio. ‡Orinne Johnson, B. S., Asst. in Informa-

tion.

†‡J. A. Smith, Ph. D., Bul. Editor.

Engineering (Agr.):

*†‡J. B. Kelley, B. S., Prof. Agr. Engin.; Agr. Engin.

†J. B. Brooks, B. S., Asst. Prof. Agr. Engin. ‡E. S. Holmes, B. S., Field Agt. in Agr. Engin.

±ngm.
±J. L. McKitrick, B. S., Ext. Agr. Engin.
‡M. J. Pattyn, B. S., Field Agt. in Agr. Engin.
†R. E. Skinner, M. S., Agr. Engin.
‡E. G. Welch, B. S., Field Agt. in Agr. Engin.
*E. R. Young, M. S., Assoc. Prof. Agr. Engin.

Entomology and Botany:

*†W. A. Price, M. S., Prof. Ent. and Head of Dept. (State Ent.).

†Mrs. Mary L. Anderson, A. B., Seed Analyst.

†Lucy G. Baugh, B. S., Seed Analyst.

†C. D. Brown, M. S., Asst. Ent.

†Encil Deen, B. S., Seed Insp.

†Jessie H. Harned, A. B., Seed Analyst.

†Mrs. Mildred Hyatt, M. S., Asst. Bot.

†H. H. Jewett, M. A., Assoc. Ent.

†Mrs. Alice M. McDaniel, A. B., Seed Analyst.

alust.

alyst.
†Margaret Morton, A. B., Seed Analyst.
†B. F. Quisenberry, M. S., Asst. Ent.
†J. G. Rodriguez, Ph. D., Asst. Ent.
†H. G. Tilson, M. S., Nursing and Seed Insp.
†Anne Todd, B. S., Seed Analyst.
*L. H. Townsend, Ph. D., Assoc. Prof. Agr.
Ent.
†E. C. Vaughn, B. S., Field Agt. in Improved
Seed Prod.

Seed Prod. †Mabel Wiles, Seed Analyst.

Extension Administration:

*T. P. Cooper, B. S. A., D. Sc., LL. D., Dir.
*T. R. Bryant, M. S., Asst. Dir., Prof. Agr.

Ext.

C. A. Mahan, M. S., State Agt., County Agt. Work.

Myrtle M. Weldon, A. M., State Leader Home Dem. Work.

J. W. Whitehouse, M. S., State Leader Club Work.

I. C. Graddy, M. S., Asst. State Agt., County Agt. Work.

E. J. Kilpatrick, M. S., Asst. State Agt., County Agt. Work.

R. H. Lickert, B. S., Asst. State Agt., County Agt. Work.

County Agt. Work.

H. F. Link; M. S., Asst. State Agt., County

County Agt. Work.

‡R. H. Lickert, B. S., Asst. State Agt.,
County Agt. Work.

‡H. F. Link, M. S., Asst. State Agt., County
Agt. Work.

‡H. W. Whittenburg, B. S., Asst. State
Agt., County Agt. Work.

‡W. C. Wilson, B. S., Asst. State Agt., County
Agt. Work.

‡Leone Gillett, B. S., Asst. State Leader
Home Dem. Work.

‡Mrs. Pearl J. Haak, B. S., Field Agt. in
Home Econ.

†Mrs. Pearl J. Haak, B. S., Field Agt. in Home Econ.
†Alda Henning, B. S., Asst. State Leader Home Dem. Work.
†Lulie E. Logan, A. B., Asst. State Leader Home Dem. Work.
†Zelma Monroe, B. S., Asst. State Leader Home Dem. Work.
†Vandilla Price, A. B., Asst. State Leader Home Dem. Work.
†Wrs. Helen M. White, B. S., Asst. State Leader Home Dem. Work.
†E. E. Fish, M. S., Field Agt. in Club Work.
†M. S. Garside, B. S., Field Agt. in Club Work.
†Dorothy Gentry, B. S., Field Agt. in Club Work.

Work. ‡Н. В. Work. Gibson, B. S., Field Agt. in Club

Extension Administration-Continued

\$Margaret Gulley, B. S., Field Agt. in Club

Work.

‡C. W. Jones, B. S., Field Agt. in Club Work.

‡Mrs. Miriam J. Kelley, B. S., Field Agt. in Ext. Mktg. ‡G. J. McKinney, B. S., Field Agt. in Club

Work.

tJ. P. Ross, M. S., Field Agt. in Club Work. tLyda M. Sutherland, B. S., Field Agt. in Club Work. tB. E. Wheeler, B. S., Field Agt. in Club

‡B. E. Work.

Home Economics:

*†Statie E. Erikson, Ph. D., Prof. and Head of Dept.
*Mrs. Bobby J. Allred, B. S., Asst. Instr. in

Home Econ.

*Emily Baker, B. S., Asst. Instr. in Home Econ

*Marie R. Barkley, M. A., Assoc. Prof. Home *Leora Bentley, B. S., Instr. Home Econ. †Ruth E. Boyden, M. A., Asst. in Home

Econ

tMrs. Myra J. Button, M. A., Field Agt. in Home Econ.
*Mrs. Anne M. Clemmons, B. S., Instr. in

#Wivian L. Curnutt, M. A., Field Agt. in Home Econ.

*Mrs. Pauline E. Freels, B. S., Instr. Home Econ.

*Ruth M. Guenther, M. A., Instr. Home Econ. ‡Ida C. Hagman, M. A., Field Agt. in Home

Econ. *S. Elizabeth Helton, M. S., Asst. Prof.

HomeEcon. ‡Florence Imlay, M. A., Field Agt. in Home Econ

‡Edith Lacy, M. A., Field Agt. in Home

Econ. ‡Verna Latzke, M. S., Field Agt. in Home Econ

‡Venice Lovelady, B. S., Field Agt. in Home

*Mary Mumford, M. S., Asst. Prof. Home Econ. ‡Frances Stallard, M. A., Field Agt. in Home

Econ. *Roberta S. Taylor, M. A., Asst. Prof. Home

Dorothy E. Threlkeld, B. S., Field Agt. in

*Holen Wilmore, M. S., Asst. Prof. Home

Econ.
rs. Mary C. Woo
Prof. Home Econ. *§Mrs. Wooldridge, M. S., Asst.

Horticulture:

*†‡A. J. Olney, M. H., S. M., Prof. and Head of Dept.

†W. D. Armstrong, B. S., Hort. (P. O., Princeton).

†C. E. Chaplin, M. S., Asst. Hort.

*†‡O. M. Davenport, M. S., Assoc. Prof. in charge Sect. of For.

*‡N. R. Elliott, B. S., Prof. Landsc. Arch. and Flor., Field Agt. in Hort.

*†E. M. Emmert, Ph. D., Prof. and Asst. Hort. Hort.

Hort.

J. S. Gardner, M. A., Field Agt. in Hort.

W. E. Jackson, Jr. B. F., E. Eng., Field.

Agt. in For.

J. E. Klinker, Ph. D., Asst. Hort.

W. W. Magill, B. S., Field Agt. in Hort.

†C. S. Waltman, Ph. D., Prof. and Assoc.

Hort.

Markets and Rural Finance:

*†A. J. Brown, Ph. D., Prof. Mktg. and Head of Dept. *†D. G. Card, Ph. D., Prof. Agr. Econ.; Assoc. Econ. in Agr. Prices.

Markets and Rural Finance-Continued

*†‡H. B. Price, Ph. D., Prof. Agr. Econ.; Econ. in Markets and Rural Finance.

‡W. C. Binkley, M. S., Asst. Econ. in Agr. Mktg.

*†C. M. Clark, M. S., Asst. Prof. Markets and Rural Finance; Asst. Econ. in Agr.

Mktg. B. Clark, Ph. D., Asst. Prof. Agr. Mktg.; Asst. Econ.
D. Gooch, M. S., Asst. Econ. in Agr.

†E. D. Gooch, M. S., Asst. Evon. in Ayr. Mktg.
†U. G. Grayson, Jr., M. S., Asst. Econ.
†B. L. Hornbeck, B. S. F., For.
†T. C. Morrison, M. S., Asst. in Markets
†C. D. Phillips, Ph. D., Assoc. Econ. in Agr.

†R. W. Rudd, B. S., Asst. Econ. in Agr. Mktg. ‡G. P. Summers, M. S., Field Agt. in Mar-

kets.
*L. A. Vennes, M. S., Asst. Prof. Mktg.,
Field Agt. in Markets.

Public Service Laboratories:

†L. A. Brown, Phar. D., Ph. C., Head of †L. A. Brown, Phar. B., Fh. C., Hown Dept.
†R. W. Fallis, Asst. Bact.
†H. S. McGuire, A. B., B. S., Asst. Bact.
†A. L. Meader, B. A., Asst. Chem.
†G. W. Pope, B. S., Asst. Chem.
†G. S. Terry, M. A., Bact.

Regulatory Work:

†A. B. Poundstone, M. S., Head Dept. Feed and Fert. Control. †J. D. Foster, M. S., Insp. in charge Cream-

†H. R. Allen, M. A., Chem., Feed and Fert. †J. E. Anderson, Asst. Insp. Feed and Fert. †Rose M. Blanchet, B. S., Asst Chem., Feed and Fert.

†J. B. Brown, B. S., Insp., Creamery License

7J. B. Drown, B. S., Anop., Grammer Scot.
†Lelah V. Gault, B. S., Asst. Chem., Feed and Fert.
†R. M. Hays, B. S., Asst. Chem.
†N. J. Howard, B. S., Asst. Insp., Feed and

†Neville Hulette, Feed Insp., Feed and Fert. †Chester Lawrence, Asst. Insp., Creamery License Sect.

†Robert Mathews, Chief Insp. and Asst. Admin., Feed and Fert. †V. C. Midkiff, B. S., Asst. Chem., Feed and

†R. N. Price, B. S., Asst. Chem. †J. A. Shrader, M. S., Ph. C., Microscopist, Feed and Fert. †Elizabeth A. Swift, B. S., Asst. Chem., Feed and Fert.

Sociology (Rural):

*†‡H. W. Beers, Ph. D., Prof. and Head of Dept.

*†W. W. Bauder, Ph. D., Prof. Rural Sociol.; Rural Sociol

*†J. S. Brown, M. A., Asst. Prof. and Asst. Rural Sociol. †Lee Coleman, Ph. D., Asst. Rural Sociol.

R. J. Ramsey, M .A., Field Agt. in Rural Sociol.

Miscellaneous:

†‡W. B. Ball, A. B., in charge Service Office. †‡Pauline Elliston, Asst. in Service Office. †Oleva L. Ginocchio, Admin. Asst.

††P. M. Pinney, B. S., Asst. in Service Office, †‡J. L. Poole, Jr., A. B., Asst. in Visual Aids. †Grace L. Snodgrass, B. A., Libr.

rs. Susan K. Slaughter, Records and Budgetary Asst.

Substations:

Robinson Substa., P. O., Quicksand— R. W. Jones, Supt. R. C. Hill, B. S., For.

Substations—Continued

Western Ky. Substa., P. O., Princeton-S. J. Lowry, B. S., Supt. L. M. Caldwell, B. S., 48st. Supt.

Kentucky State College, Frankfort

*Agricultural faculty.

*R. B. Atwood, A. B., B. S., M. A., LL. D., President. *P. J. Manly, M. S., Actg. Head Dept. of Agr.

*L. E. Alexander, Ph. D., Prof. and Head Dept of Biol.
*D. H. Bradford, Ph. D., Prof. and Head Dept. of History and Government, Dean and Registrar.

*And Registrar.

*J. B. Brown, M. A., Asst. Prof. Chem.

*Roxie B. Butler, M. S., Asst. Prof. and
Actg. Head Dept. of Home Econ.

*W. L. Dixon, M. S., Instr. Biol.

*S. J. Dunn, B. S., Instr. Agr.

*P. J. Manly, M. S., Asst. Prof. and Teacher-Trainer of Agr.; Actg. Head Dept. of

**Trainer of Agr.; Acty. Hewe Bope. of Agr.*

**E. D. Raines, Ph. D., Prof. and Head Dept. of Chem.

**A. L. Surratt, M. S., Instr. Agr.

**C. R. Taylor, M. S., Instr., Biol.

**Alberta Temple, M. S., Instr. Home Econ., Clothing. Clothing.

LOUISIANA

The Louisiana State University and Agricultural and Mechanical College, the Agricultural Experiment Station and the Agricultural Extension Service, University Station, Baton Rouge 3

*College faculty. †Station staff. \$Leave of absence. ‡Extension staff.

*T. H. Middleton, M. S., President of University.

*J. G. Lee, Jr., M. S., Dean Coll. of Agr.

†W. G. Taggart, M. S., Dir. of Sta.

‡H. C. Sanders, M. A., Dir. of Agr. and Home Econ. Ext.

†I. L. Forbes, Ph. D., Asst. Dir. of Agr. and Home Econ. Ext. . Comptroller.

Agronomy:

*†M. B. Sturgis, Ph. D., Prof. and Head of Dept.

†R. L. Arceneaux, B. S., Asst. Agron. †R. H. Brupbacher, M. S., Res. Assoc. Agron. ‡I. W. Carson, B. S., Assoc. Ext. Agron. in

Cotton.

†J. D. DeMent, M. S., Asst. Agron. †B. N. Driskell, M. S., Assoc. Agron. †J. P. Gray, Ph. D., Agron. *†M. T. Henderson, Ph. D., Prof. Agron.;

†M. T. Henderson,
†H. W. Ivy, Jr., B. S., Asst. Agron.
†A. G. Killgore, B. S., Assoc. Ext. Agron.
(Seed Work).
*L. L. Lauden, B. S., Instr. Agron.
†S. A. Lytle, B. S., Assoc. Soil Sci.
†J. G. Marshall, M. S., Res. Assoc. in Agron.
†L. L. McCormick, B. S., Res. Assoc. in Agron.

†L. İ. McCormick, B. S., Res. Assoc. in Agron.

‡E. R. McCrory, M. S., Assoc. Agron.

†C. W. McMichael, M. S., Asst. Agron.

‡T. H. Milliken, M. S., Assoc. Ext. Agron.

(Farm Unit Dem.).

†C. L. Mondart, Jr., Res. Assoc. in Agron.

‡W. E. Monroe, B. S., Assoc. Ext. Agron.

†H. O. Muery, B. S., Res. Assoc. in Agron.

†C. R. Owen, M. S., Asst. Agron.

*†W. J. Peevy, Ph. D., Prof. Agron.; Agron.

†C. E. Scarsbrook, Ph. D., Assoc. Prof. and Assoc. Agron.

†F. W. Self, M. S., Assoc. Agron.
†Hugo Stoneberg, M. S., Cereal Invest. Spec.
(Coop. U. S. D. A.).
†R. K. Walker, M. S., Assoc. Agron. (P. O.,

†R. K. Walker, M. S., Assoc. Ayron. (1. C., Crowley).
†R. A. Wasson, M. S., Agron.
†W. H. Willis, Ph. D., Prof. Agron.; Agron.

Animal Industry:

*†J. B. Francioni, Jr., M. S., Prof. and Head of Dept.

*Lee Berwick, M. S., Asst. Prof. An. Indus.

‡W. T. Cobb, M. S., Ext. An. Husb.

*†R. M. Crown, M. S., Assoc. Prof. and Assoc.
An. Husb.

Animal Industry—Continued

*T. M. DeRouen, M. S., Asst. Prof. An. In-

dus.

†A. D. Fitzgerald, B. S., Assoc. Ext. An. Husb.

‡\$C. I. Hill, M. S., Ext. An. Husb.

††J. F. Kidwell, Ph. D., Prof. An. Indus.

††S. E. McCraine, M. S., Assoc. Prof. An. Indus.; Assoc. An. Husb.

†A. P. Parham, M. S., Asst. An. Husb.

†C. B. Singletary, M. S., Asst. An. Husb.

†A. D. Tillman, M. S., Asst. Prof. An. Indus.

Botany, Bacteriology, and Plant Pathology:

*†S. J. P. Chilton, Ph. D., Prof. and Chair.
of Dept.
†J. G. Atkins, Ph. D., Asst. Plant Path.
*C. A. Brown, Ph. D., Asst. Prof. Bot.
*W. S. Cook, Ph. D., Asst. Prof. Bot.
†P. H. Dunckelman, B. S., Asst. Plant Path.
*L. H. Flint, Ph. D., Prof. Bot.; Plant Path.
Path.

*†I. L. Forbes, Ph. D., Prof. Bot.; Plant Path.

†W. J. Martin, Ph. D., Assoc. Plant Path.

*C. S. McCleskey, Ph. D., Prof. Bact.

†P. J. Mills, M. S., Res. Assoc. in Plant Path.

*C. F. Moreland, Ph. D., Prof. Bot. and Bact.

†D. C. Neal, Ph. D., Senior Path. (Coop. U. S. D. A.).

*†A. G. Plakidas, Ph. D., Prof. Plant Path.; Plant Path.

†E. R. Stamper, M. S., Asst. Plant Path.

†E. C. Tims, Ph. D., Assoc. Plant Path.

*E. M. West, Ph. D., Prof. Bot.

Chemistry (Agr.) and Biochemistry:

*†E. A. Fieger, Ph. D., Prof. Chem.; Nutr.,
Head of Dept.
†Anne Andrews, M. S., Res. Asst.

*†J. F. Christmas, Ph. D., Asst. Prof. and
Asst. Biochem.
†Martha E. Hollinger, Ph. D., Assoc. Nutr.
†W. H. James, Ph. D., Assoc. Agr. Biochem.
†Socrates Kaloyereas, Ph. D., Assoc. Food
Preservationist.
†Harvye Lewis, Ph. D., Asst. Nutr.

†Harvye Lewis, Ph. D., Asst. Nutr.

Chemistry (Agr.) and Biochemistry-Continued

*†J. G. Lee, III, Ph. D., Assoc. Prof. Chem.; Assoc. Biochem. *†Mrs. Virginia R. Williams, Ph. D., Asst. Prof. and Asst. Nutr.

Dairying:

*†J. B. Frye, Ph. D., Prof. and Head of Dept. ‡H. W. Anderson, B. S., Asst. Ext. Dairy

*†Cecil Branton, M. S., Asst. Prof. and Asst.

*†Cecil Branton, M. S., Asst. Prof. and Asst. Dairy Husb.

*B. J. Burch, M. S., Asst. Prof. Dairying.

‡R. C. Callaway, B. S., Assoc. Dairy Spec.

*†A. J. Gelpi, M. S., Assoc. Prof. Dairying;
Assoc. Dairy Husb.

†J. E. Johnston, Ph. D., Asst. Prof. Dairying;
Asst. Dairy Husb.

‡C. W. Knight, M. S., Assoc. Ext. Dairyman.

†G. D. Miller, B. S., Asst. in Dairy Res.

‡E. W. Neasham, M. S., Ext. Dairyman.

*†T. E. Patrick, M. S., Asst. Prof. and Asst.
Dairy Husb.

*†L. L. Rusoff, Ph. D., Assoc. Prof. and Assoc.

*†L. L. Rusoff, Ph. D., Assoc. Prof. and Assoc.

Dairy Nutr.

*†E. E. West, M. S., Instr. and Res. Associn Dairying.

Economics (Agr.):

*†B. M. Gile, Ph. D., Agr. Econ., Prof. and Head of Dept. †W. H. Alexander, M. S., Asst. Prof. and Asst. Agr. Econ. *†J. M. Baker, M. S., Assoc. Prof. and Assoc.

*†W. L. Bruner, B. S., Instr. and Res. Assoc.

*†W. L. Bruner, B. S., Instr. und 1005. 1005. in Agr. Econ.
†H. J. Casso, B. S., Res. Assoc. in Agr. Econ.
*Esther Cooley, M. S., Consumer Ed. Spec.
‡W. D. Curtis, M. S., Assoc. Ext. Econ.
*†J. N. Efferson, Ph. D., Prof. Agr. Econ.;

Agr. Econ. M. Grigsby, M. S., Assoc. Ext. Mktg.

Spec.
*†J. F. Hudson, M. S., Asst. Prof. and Asst. Agr. Econ. ‡J. A. McDaniel, M. S., Asst. Farm Mgt.

Spec. *†J. P. Montgomery, M. S., Assoc. Prof. and

Assoc. Agr. Econ.

†O. B. Quinn, B. S., Res. Assoc. in Agr. Econ.

*†F. E. Stanley, M. S., Assoc. Prof. and Assoc. Agr. Econ.
†Randall Stelly, M. S., Res. Assoc. in Agr.

*†M. D. Woodin, Ph. D., Prof. Agr. Econ.;
Agr. Econ.

Editorial and Publicity:

*†Marjorie B. Arbour, M. A., Editor. †\$L. V. George, B. S., Editor. ‡Gordon Loudon, B. A., Assoc. Ext. Editor (Radio). ‡B. B. Mackay, Information Spec. for Live-

†B. B. Mackay, Information Spec. for Live-stock Shows. ‡A. V. Patterson, Jr., B. S., Asst. Ext. Edi-tor (Visual Aids). *†C. W. Price, B. A., Assoc. Editor. ‡Fred Williamson, Assoc. Editor.

Education (Voc.):

*R. L. Davenport, Ph. D., Dir. School of Voc. Ed., Prof. Agr. Ed.
*J. C. Floyd, M. S., Ed. D., Prof. and Head Dept. of Agr. Ed.
*Nelson Hauer, M. S., Assoc. Prof. and Head Dept. of Indus. Ed.
*N. L. Bacot, M. S., Asst. Prof. Voc. Agr. (P. O., Lecompte).
*H. J. Braud, M. S., Assoc. Prof. Agr. Ed.
*D. L. Evans, B. S., Instr. Voc. Agr. (P. O., Lecompte).

*M. C. Gaar, Ph. D., Prof. Agr. Ed.

*W. B. Hilton, B. S., Instr. Voc. Agr. (P. O., Lecompte).

*C. G. Mainous, M. S., Asst. Prof. Indus. Ed.

Education (Voc.) -- Continued

*C. L. Mondart, Ph. D., Dir. School of Voc. Agr., Prof. Agr. Ed. (P. O., Lecompte).
*E. E. Randall, M. S., Instr. Voc. Agr. (P.

*E. E. Rahdan, M. S., Arsov. To. 20. Lecomptel.
O. Lecomptel.
*P. V. Rougon, B. S., Instr. Indus. Ed.
*E. G. Smith, M. S., Assoc. Prof. Indus. Ed.
*R. E. Stucki, B. S., Instr. Indus. Ed.
*Max Yarbrough, B. S., M. E., Instr. Indus.

Engineering (Agr.):

*E. B. Doran, M. S., Prof. and Head of Dept. †H. T. Barr, M. S., Agr. Engin. in charge of

*E. B. Doran, M. S., Prof. and Head of Dept.
†H. T. Barr, M. S., Agr. Engin. in charge of Res.
†R. E. Brady, Tech. in Agr. Engin.
*W. H. Carter, M. S., Prof. Agr. Engin.
†L. E. Creasy, B. S., Asst. Agr. Engin.
*C. M. Curtis, B. S., Instr. Agr. Engin.
*R. L. Green, M. S., Asst. Prof. Agr. Engin.
*J. H. Hough, B. S., Instr. Agr. Engin.
*T. H. Engin.
*R. P. Kay, M. S., Asst. Ext. Engin.
*R. B. Lillard, Tech. in Agr. Engin.
†C. J. Marix, Res. Asst. in Agr. Engin.
†J. C. J. Marix, Res. Asst. in Agr. Engin.
†J. C. Newell, B. S., Asst. Agr. Engin.
†J. C. Newell, B. S., Asst. Agr. Engin.
†J. S. Norton, B. S., Res. Asst. in Agr.
Engin. for Gins.
W. D. Poole, M. S., Assoc. Agr. Engin.
†I. L. Saveson, B. S., Drainage Engin.
†C. E. Severance, B. S., Asst. Ext. Engin.

Experiment Station Administration:

†W. G. Taggart, M. S., Dir. †I. L. Forbes, Ph. D., Asst. Dir. †J. G. Gibert, B. S., Tech. Asst. to the Dir.

Entomology-See Zoology.

Extension Administration:

‡H. C. Sanders, M. A., Dir. ‡§J. G. Richard, M. S., Asst. Dir. and State \tilde{Agt}

J. E. Knight, Asst. to Dir.

G. L. Burleson, M. S., Program Analyst. ‡Ellen LeNoir, M. A., State Home Dem. Agt. ‡J. M. O'Quin, M. S., State Club Agt. ‡M. M. LaCroix, M. S., Assoc. State Club

Agt.Agt.
‡Fae Roark, M. S., Assoc. State Club Agt.
‡C. S. Shirley, B. S., Asst. State Club Agt.
‡Gloria Belle, B. S., Asst. State Club Agt.
for Work with Negroes.
‡R. J. Courtney, B. S., Asst. State Agt. for
Work with Negroes (P. O., Scotland-

ville)

ville).

‡Amelia Lewis, B. S., Asst. State Home Dem. Agt. for Work with Negroes.

‡W. M. Babin, M. S., Asst. State Agt. and Mgr. Univ. Livestock Shows.

*‡C. W. Davis, M. S., Prof. Agr. Ext. Ed. and Asst. State Agt.

‡Miss Tom Bourg, A. M., SW. Dist. Agt.

‡Mrs. Mary Johnson, A. M., SE. Dist. Agt.

‡Mrs. Mary Johnson, A. M., SE. Dist. Agt.

‡C. E. Kemmerly, Jr., M. S., SW. Dist. Agt.

‡J. L. Lee, B. S., NW. Dist. Agt.

‡J. L. Lee, B. S., NW. Dist. Agt.

‡F. A. Swann, M. S., SW. Dist. Agt.

‡Gladys Tappan, M. S., NE. Dist. Agt.

‡Nan Tarwater, M. S., NW. Dist. Agt.

Fertilizer and Feed Stuffs Laboratory:

†E. A. Epps, Jr., M. S., Chief Chem.
†H. C. Austin, B. S., Res. Assoc.
†Frances L. Bonner, M. S., Asst. Chem.
†Mrs. Ethel L. Claiborne, B. S., Res. Assoc.
in Chem.
†W. P. Denson, A. B., Asst. Chem.
†J. G. Kowalczuk, B. S., Res. Assoc.
†J. B. McDevitt, B. S., Res. Assoc.
†C. C. Moreland, B. S., Asst. Chem.

Forestry:

*†R. W. Hayes, B. S., M. F., Prof. and Dir. of School.

Forestry-Continued

*†M. B. Applequist, B. S., M. F., Asst. Prof. and Asst. For.

*†\$B. A. Bateman, M. S. F., Prof. For.; For.

*†A. B. Crow, B. S., M. F., Asst. Prof. and Asst. For.

*†L. L. Glasgow, M. S., Asst. Prof. and Asst.

For. ‡A. S. McKean, M. S., Ext. For. *†C. O. Minor, B. S., M. F., Asst. Prof. and

Asst. For.
. M. Palmer, M. F., Assoc. Prof. and

*†W. M. Falmer, M. F., 4880c. For. *†R. F. West, B. S., M. F., Asst. Prof. and Asst. For.

Home Economics:

*Clara Tucker, Ph. D., Prof. and Head of Dept., Head Dept. of Home Econ. Ed. Mrs. Florence Abington, B. S., Spec. in Family Life and Health. *Beth Andrews, M. A., Asst. Prof. Home *Econ.

*Hazel A. Baker, A. M., Prof. Home Econ. \$Margaret Brumby, M. A., Clothing Spec. †Mrs. Echo P. Cheely, M. S., Res. Assoc. in *Alma B. Clark, M. S., Asst. Prof. Home

Econ. Cunningham, M. S., Assoc. Prof. Home Econ. Ed. ;
Bertha L. Ferguson, M. S., Home Gard.

‡Estelle Fournet, M. S., Food Preservation

Spec.
†Martha E. Hollinger, Ph. D., Assoc. Nutr.
†Margaret Jolley, M. A., Assoc. Ext. Nutr.
*Sarah Lee, A. M., Assoc. Prof. Home Econ.
*†Mrs. Laureame C. McBryde, B. S., Instr.
and Res. Assoc. in Home Econ.
*†SMrs. Dorothy S. Moschette, M. S., Assoc.
Prof. and Assoc. Home Econ.
*Maude G. Ryder, M. S., Assoc. Prof. Home
Econ.

Econ.

*Ona Smith, M. A., Asst. Prof. Home Econ. *Evelyn Stout, M. S., Asst. Prof. Home Econ.

*Susanne Thompson, Ph. D., Prof. Home Econ.

‡\$Rogenia G. Trotter, M. S., Spec. in Hous-ing and Home Furnishings. *Elizabeth R. Tucker, M. A., Asst. Prof. Home Econ. *Kathryn Warren, M. S., Asst. Prof. Home

Econ. ‡Mamie N. Whisnant, M. S., Home Mgt.

*Cleo E. Willey, M. S., Asst. Prof. Home Econ.

Horticulture:

*†J. C. Miller, Ph. D., Hort. in charge of Res.

*B. H. Singletary, M. S., Prof. and Head of Dept.

†Rita B. Attaya, M. S., Res. Assoc. in Hort.

†J. A. Cox, M. S., Est. Hort.

†Stewart Dallyn, Ph. D., Assoc. Hort.

†T. P. Dykstra, Ph. D., Senior Path. (Coop. U. S. D. A.).

‡Bertha L. Ferguson, M. S., Home Gard.

‡Bertha L. Ferguson, M. S., Home Gard. Spec.

†James Fontenot, M. S., Asst. Hort.
*R. H. Hanchey, M. S., Asst. Prof. Hort.
†P. L. Hawthorne, M. S., Assoc. Hort.
†T. P. Hernandez, M. S., Assoc. Hort.
†A. E. Kehr, Ph. D., Assoc. Hort.
*†W. D. Kimbrough, Ph. D., Prof. Hort.;
†\$J. J. Mikell, M. S., Asst. Hort.
‡Joseph Montelaro, M. S., Assoc. Ext. Hort.
‡R. S. Reich, Ph. D., Assoc. Prof. Hort.
‡Donald Spurlock, M. S., Asst. Ext. Hort.
†R. E. Webb, M. S., Asst. Hort.

Poultry Industry:

*†C. W. Upp, Ph. D., Prof. and Head of Dept. *†W. D. Blackwell, Instr. and Res. Assoc. in Poultry.

Poultry Industry-Continued

*†H. E. Hathaway, M. S., Instr. and Res. Assoc. in Poultry.

†Clyde Ingram, M. S., Ext. Poultryman.

†Stella Jones, Assoc. Poultry Spec.

*†B. A. Tower, M. S., Asst. Prof. and Asst. Poultry Husb.

*†A. B. Watts, Ph. D., Asst. Prof. and Asst. Poultry Husb.

Sociology (Rural):

*†H. L. Hitt, Ph. D., Rural Sociol., Prof. and Head of Dept. *†A. L. Bertrand, Ph. D., Asst. Prof. and

Asst. Rural Sociol.

†Mary Mims, LL. D., Ext. Rural Sociol.

†P. H. Price, M. A., Asst. Prof. and Asst.
Rural Sociol. ‡Lina Warren, B. S., Asst. Ext. Rural Sociol.

Sugarcane Work:

†C. B. Gouaux, B. S., Agron. (P. D., Lafayette). †E. C. Simon, M. S., Assoc. Agron.

Veterinary Science:

*†W. T. Oglesby, D. V. M., M. S., Vet., Prof. and Head of Dept. *†C. H. Bridges, Instr. and Res. Assoc. Vet. Sci.

†Carol T. Ernest, M. S., Res. Asst. in Vet. Sci.

†R. B. Lank, D. V. M., Assoc. Prof. and

*†Helen E. Levy, B. S., Res. Asst. in Vet. Sci.

†R. L. Mayhew, Ph. D., Parasit.

†James Miller, D. V. M., Asst. Prof. and

Asst. Vet.

Zoology and Entomology:

Zoology and Entomology:

*W. H. Gates, D. Sc., Prof. and Head of Dept.
†C. E. Smith, M. S., Ent. and Head of Res.
*Ellinor H. Behre, Ph. D., Prof. Zool.
*H. J. Bennett, Ph. D., Assoc. Prof. Zool.
*Mrs. Jane T. Bennett, Asst. in Zool.
†K. L. Cockerham, M. S., Ent. (Coop. U. S. D. A.).
†E. J. Concienne, B. S., Res. Assoc.
†A. L. Dugas, M. S., Ent.
*I. D. George, Ph. D., Asst. Prof. Zool.
†P. K. Harrison, M. S., Asst. Ent. (Coop. U. S. D. A.).
*G. C. Kent, Ph. D., Instr. Zool.
†C. K. Harrison, M. S., Asst. Prof. and Curator of Zool. Museum.
†Otto Mackensen, Ph. D., Asst. Apiculturist (Coop. U. S. D. A.).
*G. H. Mickey, Ph. D., Asst. Prof. Zool.
†L. D. Newsom, Ph. D., Asst. Apiculturist (Coop. U. S. D. A.).
*Terry Pullig, M. S., Asst. in Zool.
*J. H. Roberts, Ph. D., Assoc. Prof. Ent.
†O. W. Rosewall, Ph. D., Prof. Ent.
†J. S. Roussel, M. S., Asst. Ent.
*R. A. Smith, Ph. D., Instr. Zool.
*\$A. J. Stanley, Ph. D., Asst. Prof. Zool.
†R. G. Strong, M. S., Asst. Ent.
*R. A. Smith, Ph. D., Instr. Zool.
**A. J. Stanley, Ph. D., Asst. Prof. Zool.
†R. G. Strong, M. S., Asst. Ent.
†Warren Whitcomb, Jr., Ph. D., Apiculturist (Coop. U. S. D. A.).

Miscellaneous:

‡C. M. Brooks, B. S. L. S., Ext. Libr. *J. A. McMillen, A. B., B. L. S., Libr. †Mrs. Frances S. Stoker, Bul. Clerk.

Substations:

Fruit and Truck Sta., P. O., Hammond— W. F. Wilson, Jr., M. S., Supt. M. J. Giamalva, M. S., Asst. Hort. North La. Hill Farm Expt. Sta., P. O., Homer

D. M. Johns, M. S., Supt. Thomas Hansbrough, B. S., Res. Assoc.

in For.
H. C. Kellgren, B. S., Asst. in Dairying.
R. E. Wright, M. S., Asst. Hort.

Substations-Continued

North La. Sta. P. O., Calhoun— R. S. Woodward, M. S., Supt. and Assoc. Hort.

J. L. ... Indus. Mo L. Heath, Jr., B. S., Asst. in An.

Indus.
J. L. McDonald, Asst. in Hort.
J. C. Taylor, M. S., Assoc. in Hort.
Northeast La. Sta., P. O., St. Joseph—
C. B. Haddon, B. S., Supt.
J. C. Carpenter, Jr., M. S., Asst. An.
Husb.
J. A. Hendrix, M. S., Asst. Agron.
S. A. Phillips, B. S., Asst. Agron.
R. Y. Ratcliff, B. S., Res. Assoc. in
Agron.

Agron.

Plaquemines Parish Sta., P. O., Diamond-R. T. Brown, M. S., Supt. and Asst. Hort.

F. B. Schmitz, M. S., Asst. Hort.

Substations-Continued

Red River Valley Expt. Sta., P. O., Shreve-

Red River Valley Expt. Sta., P. O., Shreveport—
J. Y. Oakes, M. S., Supt. and Agron.
E. C. Bashaw, B. S., Asst. Agron.
C. R. Jordan, M. S., Asst. Ent.
W. A. Nipper, M. S., Asst. Ent.
Rice Sta., P. O., Crowley—
R. K. Walker, M. S., Supt. and Assoc.
Agron. (Coop. U. S. D. A.).
D. E. Black, B. S., Res. Assoc. in Agron.
L. G. Coonrod, B. S., Asst. Agr. Engin.
N. E. Jodon, M. S., Asst. Agron. (Coop.
U. S. D. A.).
Southeast La. Livestock Sta., P. O., Franklinton—

linton

hnton—
H. D. Ellzey, M. S., Supt.
B. D. Nelson, B. S., Asst. Dairyman.
West La. Expt. Sta., P. O., DeRidder—
C. B. Roark, M. S., Supt.
H. E. Harris, B. S., Res. Assoc. in Agron.

Southern University and Agricultural and Mechanical College of the State of Louisiana, Southern Branch P. O., Baton Rouge 5

*Agricultural and Home Economics faculties. \$Leave of absence.

*F. G. Clark, Ph. D., President. *J. W. Fisher, M. S., Dir. of Agr. *Pinkie E. Thrift, M. A., Dir. of Home Econ.

*E. R. Brantley, M. S., Dairy Husb.
*C. H. Chapman, M. S., Agr. Ed., Resident Teacher-Trainer.
*M. J. Clark, M. S., Agr. Ed., Itinerant Teacher-Trainer.
*A. Ola Davis, M. A., Home Econ., Resident Teacher-Trainer.
*W. H. Holmes, M. S., Hort.
*J. H. Hope, M. S., Poultry Husb.
*\$Hexekiah Jackson, M. S., Hort.
*Ezelle W. Johnson, M. S., Clothing, Art, and Home Mgt.
*D. W. Mays, Ph. D., Agron.

*Mrs. Georgia S. Minnis, M. S., Foods and Nuti

*Mrs. Rebecca F. Netterville, M. S., Dist.

Supvr.
*G. E. Robinson, Ph. D., An. Husb.
*Mrs. Camille S. Shade, B. S. L. S., M. S.,

*Mrs. Louise Talton, M. S., Family Relationship.
*F. C. Temple, M. S., Agr. Econ.
*Mrs. Ruth B. Ward, M. S., Foods and

Nutr. *E. C. Wright, B. S., Agr. Engin.

MAINE

College of Agriculture and the Agricultural Experiment Station of the University of Maine, Orono

*College faculty. †Station stan. §Leave of absence. ‡Extension staff.

*A. A. Hauck, Ph. D., LL. D., President of University.

*†‡A. L. Deering, B. S., Sc. D., Dean Coll. of Agr., in charge of Res., Dir. of Agr. Ext. Service.

†Fred Griffee, Ph. D., Dir. of Sta.

*W. C. Libby, M. S., Assoc. Dean Coll. of Agr., in charge Resident Instr.

†G. F. Dow, Ph. D., Asst. Dir. of Sta.

*†F. S. Youngs, Treas.

Agronomy:

*R. M. Bailey, B. S., Asst. Prof. Agron.
†P. N. Carpenter, M. S., Asst. Agron.
†C. E. Cunningham, B. S., Asst. in Agron.
†J. C. Hickey, M. S., Veg. and Canning

*†C. Hickey, M. S., Vey. and Consumy Crops Spec. †S. C. Junkins, B. S., Asst. in Agron. *†C. H. Moran, M. S., Assoc. Prof. and Assoc. Agron. *†H. J. Murphy, M. S., Instr. and Asst.

*†H. J. Murphy, M. S., Institute Issue.

*†R. A. Struchtemeyer, M. A., Assoc. Prof. and Assoc. Agron.

*†G. L. Terman, Ph. D., Prof. Agron.; Agron.

†H. W. Trask, B. S., Asst. in Agron.

*†M. F. Trevett, M. S., Asst. Prof. and Assoc.

Agron. 10. L. Wyman, B. S., Crops Spec.

Animal Industry:

*†H. C. Dickey, Ph. D., Prof. and Head of

*†H. H. Brugman, Ph. D., Asst. Prof. and Asst. An. Husb.
‡R. A. Corbett, M. S., Asst. Dairy Spec.

Animal Industry—Continued

*†L. M. Dorsey, M. S., Prof. and Assoc. Dairy Husb.

*†C. G. M. Edgerly, M. S., Asst. Prof. and Asst. An. Husb.

*†H. W. Hall, M. S., Asst. Prof. and Asst. An.

*TH. W. Hall, M. S., Asst. Proj. and Asst. An. Husb.

*G. E. Ramsdell, B. S., Instr. Dairy Husb.

‡R. F. Talbot, B. S., Dairy Spec.

*‡J. F. Witter, B. S., D. V. M., Prof. An.

Bacteriology and Biochemistry:

*E. R. Hitchner, Ph. D., Prof. Bact. and Head of Dept.

*Margaret O. Balch, M. S., Instr. Bact.

*F. H. Dalton, M. S., Instr. Bact.

†J. S. Getchell, M. S., Assoc. Bact.

*J. T. Pedlow, Ph. D., Prof. Biochem.

*H. W. Smith, Ph. D., Prof Biochem.

*J. M. Woodward, Ph. D., Asst. Prof. Bact.

Botany:

*F. H. Stienmetz, Ph. D., Prof. and Head of

Dept. *G. R. Cooper, Asst. Prof. Bot.

Botany-Continued

*B. F. Graham. M. S., Instr. Bot. *Fay Hyland, M. S., Assoc. Prof. Bot. *§E. C. Ogden, Ph. D., Asst. Prof. Bot. Rot.

Chemistry (Agr.):

†E. R. Tobey, M. S., Ch. E., Head of Dept. †Judith M. Banton, M. S., Asst. in Chem. †D. J. Dubé, M. S., Asst. in Chem. †A. S. Getchell, M. S., Asst. Chem. †M. E. Highlands, M. S., Assoc. Food Tech-

in Biochem.

im. E. Highiands, M. S., Asso: Food-nol.

†J. Licciardello, M. S., Asst in Biocl †E. O. Merrill, B. S., Asst. Chem. †E. S. Packard, B. S., Asst. in Chem. †B. E. Plummer, Jr., M. S., Chem. †G. A. Waddell, Tech.

Economics (Agr.) and Farm Management:

*†C. H. Merchant, Ph. D., Prof. and Head 7C. H. Merchant, Ph. D., Prof. and Hedd of Dept. ‡C. R. Eckstrom, M. S., Mktg. Spec. ‡R. E. Gibbs, B. A., Field Asst. *M._D. Jones, M. S., Prof. Agr. Econ. and

Farm Mgt.

**H. B. Sones, M. S., Asst. Prof. Agr. Econ. and Farm Mgt.

**E. J. Lebrun, M. S., Asst. Prof. Agr. Econ. and Farm Mgt.

†*A. W. Manchester, B. A., Mktg. Spec.

*†*H. B. Metzger, Ph. D., Assoc. Prof. Econ. and Farm Mgt.; Assoc. Agr. Econ.

†*S. C. McIntire, B. S., Mktg. Spec.

†*P. S. Parsons, B. S., Farm Mgt. Spec.

*†A. L. Perry, M. S., Asst. Prof. and Asst. Agr. Econ.

*†W. E. Pullen, M. S., Asst. Prof. Agr. Econ. and Farm Mgt.; Asst. Agr. Econ.

†*W. E. Savage, B. S., Asst. in Agr. Econ.

†*W. E. Schrumpf, M. S., Asst. Agr. Econ.

†*B. T. Thompson, Asst. in Agr. Econ.

†*H. C. Woodward, M. S., Asst. Agr. Econ.

Editorial:

‡C. A. Day, M. S., Agr. Editor. ‡J. W. Manchester, B. A., Asst. Agr. Editor. ‡J. G. Garvin, Jr., B. S., Visual Aids Spec.

Education (Agr.):

*W. H. Elliott, M. S., Assoc. Prof. and Head of Dept.

Engineering (Agr.):

*†F. W. Peikert, M. S., Prof. and Head of Dept.

Dept.

*†H. D. Bartlett, B. S., Instr. and Asst. in Agr. Engin.

†R. B. Hopkins, B. S., Asst. Agr. Engin.

*†F. W. Rath, B. S., Asst. Prof. and Asst. Agr. Engin.

*N. H. Rich, B. S., Asst. Prof. Agr. Engin.

*H. C. Swift, M. S., Asst. Prof. Agr. Engin.

†M. R. Warner, B. A. E., Agr. Engin.

Entomology:

†F. H. Lathrop, Ph. D., Head of Dept.
†R. M. Cobb, B. S., Asst. in Ent.
†C. O. Dirks, Ph. D., Prof. and Assoc. Ent.
†J. H. Hawkins, Ph. D., Assoc. Ent.
*R. E. Olson, M. S., Asst. Prof. Ent.
†W. F. Porter, B. S., Collab. Ent.
†G. W. Simpson, Ph. D., Assoc. Ent.

Extension Administration:

†A. L. Deering, B. S., Sc. D., Dir. †G. E. Lord, B. S., M. P. A., Assoc. Dir. ‡R. C. Dolloff, M. S., County Agt. Leader. ‡Estelle Nason, B. S., State Home Dem. Agt

Leader.

‡K. C. Lovejoy, B. S., State Club Leader.

‡S. R. Miller, B. S., Exec. Secy.

Forestry:

MAINE

*†R. I. Ashman, A. B., M. F., Prof. and Head of Dept.

*†Gregory Baker, B. S., M. F., Assoc. Prof. and Assoc. For.

*†F. K. Beyer, M. S., Assoc. Prof. and Asst. For.

*L. P. Bissell, M. F., For. Spec.

*G. L. Chapman, M. S., Asst. Prof. For.

*H. L. Mendall, M. A., Assoc. Prof. Game Mgt.

*H. A. Plummer, B. S., Instr. For.

*A. G. Randall, M. F., Asst. Prof. For.

*H. E. Young, Ph. D., Asst. Prof. For.

Home Economics:

*†Louise A. Stedman, Ph. D., Prof. and Head

of Dept.
*Mrs. Leona P. Andrews, M. S., Instr. Home Econ.

‡Kathryn E. Briwa, Ph. D., Food Spec. ‡Constance B. Burgess, M. S., Home Mgt. Spec.

†Mary M. Clayton, Ph. D., Nutr. *Mary J. Hitchcock, M. S., Instr. Home

Econ. Ingeborg MacKellar, Instr. Home *Mrs.

Econ. *Esther A. Martin, M. Ed., Instr. Home

*Katherine A. Miles, Ph. D., Prof. Home

Econ. †Merna M. Monroe, M. S., Asst. Home Econ. *Margaret R. Musgrave, M. A., Asst. Prof.

Home Econ. Mrs. Charlotte C. Smith, B. S., Clothing

Spec.

*Mrs. Mary E. Snyder, M. S., Assoc. Prof. Home Econ.

*Mrs. Marion D. Sweetman, Ph. D., Prof. Home Econ.

†Shirley M. Wing, M. S., Asst. in Nutr.

Horticulture:

*J. H. Waring, Ph. D., Prof. and Head of Dept.

†‡F. P. Eggert, Ph. D., Assoc. Hort. and Head of Dept.

†R. M. Bailey, B. S., Assoc. Geneticist. *Roger Clapp, M. S., Assoc. Prof. Hort. *†L. E. Littlefield, B. S., Instr. and Asst. in Hort.

†Elizabeth F. Murphy, M. A., Asst. Biol.

Plant Pathology:

†Donald Folsom, Ph. D., Head of Dept. †Reiner Bonde, Ph. D., Plant Path. †M. T. Hilborn, Ph. D., Assoc. Plant Path.

Poultry Husbandry:

*†J. R. Smyth, M. S., Prof. and Head of Dept. *§L. P. Gardner, M. S., Asst. Prof. Poultry Husb.

*†R. W. Gerry, Ph. D., Assoc. Prof. and Assoc. Poultry Husb. *†C. E. Howes, M. S., Asst. Prof. and Asst. Poultry Husb.

‡F. D. Reed, B. S., Poultry Spec.

Experiment Station Farm:

Aroostook Farm, P. O., Presque Isle—S. O. Hanson, Supt.

Blueberry Farm, P. O., Jonesboro— I. C. Mason, M. S., Supt. Highmoor Farm, P. O., Monmouth— F. J. McDonald, B. S., Supt.

MARYLAND

Colleges of Agriculture and Home Economics, Agricultural Experiment Station, and the Extension Service of the University of Maryland, College Park

*College faculty. †Station staff. ‡Extension staff.

- *H. C. Byrd, B. S., LL. D., D. Sc., President of University.
 *G. M. Cairns, Ph. D., Dean Coll. of Agr.
 †W. B. Kemp, Ph. I., Dir. of Sta., Dir. of Instr. Coll. of Agr.
 ‡J. M. Gwin, Ph. D., Dir. of Est. Service.
 †I. C. Haut, Ph. D., Asst. Dir. of Sta.
 *M. Marie Mount, M. A., Dean Coll. of Home Econ.
 *Ronald Bamford, Ph. D., Assoc. Dean Coll. of Agr., Dean of Grad. School.
 *P. E. Nystrom, M. S., Asst. to President of University.
 *†‡C. L. Benton, M. S., C. P. A., Comptroller.

Agronomy:

- *† A. O. Kuhn, Ph. D., Prof. and Head of Dept.

- Dept.

 †J. H. Axley, Ph. D., Assoc. Prof. Soils.

 †F. L. Bentz, Jr., M. S., Asst. Soil Test.

 †A. W. Burger, Ph. D., Assoc. Prof.

 †Lester Hogue, B. S., Instr. Agron.

 †Conrad Liden, M. S., Asst. Prof. Agron.

 †J. L. Newcomer, B. S., Instr.

 †W. B. Posey, M. S., Prof. Tobacco Work.

 †R. T. Preston, B. S., Asst. in Tobacco.

 †Thomas Ronningen, Ph. D., Asst. Prof.

 Agron

- *†Thomas Romingen, I.E. D.,

 Agron.

 †R. G. Rothgeb, Ph. D., Prof. Plant Brdg.

 ‡S. P. Stabler, B. S., Ext. Agron.

 †O. E. Street, Ph. D., Assoc. Prof. Tobacco

 Work.

 *Edward Strickling, Ph. D., Assoc. Prof.

 *†R. P. Thomas, Ph. D., Prof. Soils; Soils.

 †H. B. Winant, M. S., Asst. Prof. Soils.

SEED INSPECTION:

†F. S. Holmes, M. S., Chief Seed Insp. †Olive M. Kelk, Seed Analyst.

Animal Husbandry:

- *†‡J. E. Foster, Ph. D., Prof. and Head of
- *†\$J. E. Fosce, —

 Dept.

 *†\$John Buric, B. S., Instr. An. Husb.

 *†W. W. Green, Ph. D., Prof. An. Husb.

 *†W. H. Kerr, M. S., Assoc. Prof. An. Husb.

 *†\$J. B. Outhouse, M. S., Assoc. Prof. An. *†‡J. B. Outhouse, A. Husb. †J. M. Vial, B. S., Ext. Prof. An. Husb. ‡B. T. Whittle, M. S., Ext. Assoc. Prof. An.

Animal Pathology and Veterinary Science:

- †A. L. Brueckner, B. S., V. M. D., Prof. and Head of Dept., Dir. Labs., Livestock Sanitary Service. †Conelia Cotton, Ph. D., Agt. (Coop. U. S.
- 7 H. M. De Volt, D. V. M., M. S., Prof. Path. †L. J. Poelma, D. V. M., M. S., Prof. Path. †R. E. Swope, V. M. D., Assoc. Prof. Path.

Botany:

- *†‡Ronald Bamford, Ph D., Prof. and Head of Dept., Cytologist.

 *†‡R. G. Brown, Ph. D., Assoc. Prof. Bot.

 *†‡C. E. Cox, Ph. D., Prof. Plant Path.

 *†W. M. Dugger, Jr., Ph. D., Asst. Prof. Plant Physiol.

 *†H. G. Gauch, Ph. D., Prof. and Assoc. Plant Physiol.
- *†H. G. Gauch, Ph. D., Prof. ana Assoc. runn Physiol.

 *†W. F. Jeffers, Ph. D., Prof. Plant Path.
 †‡R. A. Jehle, Ph. D., Prof. Plant Path.;
 Plant Path. (State Plant Path.)

 †‡J. E. Moore, B. S., Instr. Plant Path.

 *†D. T. Morgan, Jr., Ph. D., Asst. Prof. Bot.

 *†‡O. D. Morgan, Ph. D., Asst. Prof. Bot.

 *†Anna B. Owens, M. S., Instr. Bot.

 *†R. D. Rappleye, Ph. D., Asst. Prof. Bot.

 *†‡L. O. Weaver, Ph. D., Prof. Plant Path.

Dairy Husbandry:

- *†‡G. M. Cairns, Ph. D., Prof. and Head of Dept.
- *†W. S. Arbuckle, Ph. D., Prof. Dairy Mfg.

Dairy Husbandry-Continued

- *†M. F. Ellmore, M. S., Instr. Dairy Husb.

 †Janet Gilbert, B. S., Res. Asst. Dairy Husb.

 †J. O. Hall, B. S., Asst. Dairy Insp.

 *†J. A. Holter, B. S., Instr. Dairy Husb.

 *†Mark Keeney, Ph. D., Asst. Prof. Dairy
- Mfg.
- †Emory Leffel, M. S., Instr. Dairy Husb. *†J. F. Mattick, Ph. D., Assoc. Prof. *J. W. Nisonger, B. S., Instr. Dairy Mfg. ‡J. W. Pou, M. S., Ext. Assoc. Prof. Dairy
- $Hus \tilde{b}$.
 - †M. E. Senger, B. S., Ext. Instr. Dairy Husb. *†J. C. Shaw, Ph. D., Prof. Dairy Husb. ‡E. J. Weatherby, Ph. D., Ext. Assoc. Prof. Dairy Husb.

Economics (Agr.) and Marketing:

- *† \$\dagger\$. H. DeVault, Ph. D., Prof. and Head of
- Dept.
 . L. Stier, Ph. D., Prof. and Head of Ext. †‡H. L. St Mktg.
- †Clementine B. Anslinger, B. S., Instr. Mktg.
 *†‡G. M. Beal, Ph. D., Prof. Agr. Econ.
 ‡W. C. Beaven, Ph. D., Ext. Prof. Mktg.
 *†L. B. Bohanan, M. S., Asst. Prof. Agr. *†L. B.
 - M. A. Bridgman, Asst. Prof. Fruit and Veg.

- M. A. Bridgman, Asst. Prof. Fruit and Veg. Insp.

 †T. L. Butler, B. S., Asst. Prof. Mktg.

 ‡R. S. Forrester, Ext. Asst. Prof. Mktg.

 †‡A. B. Hamilton, M. S., Assoc. Prof. Agr. Econ.

 ‡R. C. Hawes, M. S., Ext. Prof. Urban Mktg.

 †Harold Hoecker, B. S., Asst. in Ext. Mktg.

 †L. C. Holland, B. S., Ext. Asst. Prof. Mktg.

 †J. E. Mahoney, B. S., Ext. Asst. Prof. Mktg.

 †J. E. Martin, B. S., Ext. Asst. Prof. Mktg.

 †A. F. Martin, B. S., Ext. Asst. Prof. Mktg.

 †C. E. McCain, Ext. Asst. Prof. Mktg.

 †W. R. McKnight, B. S., Regional County Agt. in Mktg.

 †A. R. Meyer, B. S., Assoc. Prof. Ext. Mktg.

 †P. R. Poffenberger, M. S., Assoc. Prof. Agr.

 - Econ. W. Porter, M. S., Asst. Prof. Fruit

Editorial:

- *‡A. E. Durfee, B. A., Prof. and Editor. ‡Jean C. Evans, B. S., Assoc. Prof. and Bul.
 - Editor‡E. M. Rider, B. A., Asst. Prof. and Information Spec.

Education (Agr.):

*A. M. Ahalt, M. S., Prof. and Head of Dept. *†R. A. Murray, Ph. D., Assoc. Prof.

Engineering (Agr.):

*†‡R. W. Carpenter, A. B., LL. B., Prof. and Head of Dept.

Engineering (Agr.)-Continued

- †‡G. J. Burkhardt, M. S., Assoc. Prof. Agr.
- *†G. W. Gienger, M. S., Assoc. Prof. and Ext. Spec. in Agr. Engin.
 †H. J. Hoffmeister, B. S., Asst. Prof. Agr. Engin.
- †‡A. V. Krewatch, M. S., E. E., Assoc. Prof. Rural Electrification. *†E. W. Martin, Asst. Agr. Engin. ‡C. P. Merrick, B. S., Ext. Asst. Prof. Agr.
- Engin. †P. N. Winn, Jr., B. S., Asst. Prof. Agr.
- Engin.

Entomology:

- Entomology:

 *†‡E. N. Cory, Ph. D., Prof. and Head of Dept.

 (State Ent.).

 *†‡G. J. Abrams, M. S., Asst. Prof. Apiculture.

 *†‡W. E. Bickley, Ph. D., Assoc. Prof. Ent.

 ‡T. L. Bissell, B. S., Est. Assoc. Prof. Ent.

 †L. P. Ditman, Ph. D., Assoc. Prof. Ent.

 ‡J. R. Foster, M. S., Instr. Ent.

 ‡Engel Gilbert, Ph. D., Ext. Asst. Prof. Ent.

 (Japanese Beetle).

 ‡Castillo Graham, Ph. D., Ext. Assoc. Prof. Ent.

 - Ent.
 - *††Elizabeth E. Haviland, Ph. D., Asst. Prof.
 - Ent.

 G. S. Langford, Ph. D., Ext. Prof. Ent.

 †G. W. Lloyd, M. S., Instr. Ent.

 †H. S. McConnell, M. S., Assoc. Prof. Ent.

 ‡D. W. Squires, B. S., Instr. Ent.

Extension Administration:

- tension Administration:

 ‡J. M. Gwin, Ph. D., Dir.

 ‡E. N. Cory, Ph. D., Asst. Dir.

 ‡Venia M. Kellar, B. S., Asst. Dir.

 ‡Venia W. Kellar, B. S., Asst. Dir.

 ‡Venia W. Kellar, B. S., Asst. Dir.

 †M. S. Downey, B. S., Prof., State Boys'
 Club Agt.

 ‡Margaret T. Loar, B. S., Assoc. Prof., Dist.
- Agt.

 ‡J. W. Magruder, M. S., Assoc. Prof., County Aqt. Leader.

 ‡W. S. Wilson, B. S., Assoc. Prof., Asst. State Boys' Club Agt.

Forestry (Farm):

†‡H. W. Denglar, B. S., Assoc. Prof. For.

Home Economics:

- *M. Marie Mount, M. A., Dean of Coll., and Prof. Home and Institution Mgt. *Mrs. Emily W. Akin, M. S., Assoc. Prof.
- Textiles.
- *Pela F. Braucher, M. S., Assoc. Prof. Foods and Nutr. *Mrs. Allison T. Brown, Instr. Interior De-
- *E. M. Cornell, M. A., Asst. Prof. Foods and Nutr.
- Nutr.
 *Jane H. Crow, M. S., Asst. Prof. Home and Institution Mgt.
 *G. H. Cuneo, M. A., Asst. Prof. Pract. Arts.
 *Vienna Curtiss, M. A., Prof. and Head *Fremont Davis, Instr. Pract. Arts.

 *Nell D. Duke, M. A., Instr. Foods and
- Nutr. *Harriet Friemel, B. S., Instr. Textiles and
- Clothing.
 *Mrs. Helen Houston, M. S., Instr. Textiles

- *Mrs. Helen Houston, M. S., Instr. Textues and Clothing.

 *G. C. Lawson, M. S., Asst. Prof. Art.

 *Elizabeth P. Love, M. S., Instr. Home and Institution Mgt.

 *Alice Mahoney, Instr. Pract. Art.

 *W. J. Mahoney, M. A., Asst. Prof. Art.

 *Florence H. Mason, B. S., Ext. Prof. Home Furnishing.

 *Martha McDuffee, M. S., Instr. Foods and Nutr.
- Nutr.

Home Economics-Continued

- *Edna B. McNaughton, M. A., Prof. Home Econ. Ed.
 *Carolyn Middleton, M. S., Instr. Textiles and Olothing.
 *T. Faye Mitchell, M. A., Prof. and Head Textiles and Clothing.
 *Mrs. Ada Peers, M. S., Asst. Prof. Home and Institution Mgt.
 *Mrs. Natalie Russell, M. S., Assoc. Prof. Nat.

- Nutr. †Helen Shelby, M. A., Ext. Assoc. Prof.
- ‡Helen Shelby, M. A., Ext. Assoc. Proj. Clothing.
 ‡Helen I. Smith, B. A., Ext. Assoc. Prof. Home Mgt.
 *Mabel S. Spencer, M. S., Asst. Prof. Home Econ. Ed.
 *Mrs. June C. Wilbur, M. S., Asst. Prof. Textiles and Clothing.

Horticulture:

- ‡E. K. Bender, M. S., Ext. Asst. Prof. Veg.
- *†J. S. Caldwell, Ph. D., Assoc. Prof. Hort. *†‡Pardon Cornell, M. S., Assoc. Prof. Ornamental Hort.

- †C. O. Dunbar, B. S., Assoc. Prof. Ornatical Hort.
 †C. O. Dunbar, B. S., Est. Assoc. Prof. Hort.
 †LA. A. Duncan, B. S., Res. Asst.
 *†J. E. Hawes, M. S., Res. Asst. in Hort.
 *†C. B. Link, Ph. D., Prof. Hort.
 ††W. A. Matthews, M. S., Assoc. Prof. Hort.
 †A. A. Piringer, M. S., Res. Asst.
 *†L. E. Scott, Ph. D., Prof. Hort.
 *†J. B. Shanks, Ph. D., Assoc. Prof. Hort.
 *†M. M. Shoemaker, A. B., M. L. D., Assoc. Prof. Landsc. Gard.
 *†F. C. Stark, Jr., Ph. D., Assoc. Prof. Veg.
 *†S. H. Todd, B. S., Asst. in Hort.
- *†S. H. Todd, B. S., Asst. in Hort. ‡A. F. Vierheller, M. S., Ext. Assoc. Prof.
- #H. T. Victiletter, M. S., Zev.
 Hort.

 ‡E. P. Walls, Ph. D., Prof. and Assoc. in
 Canning Crops.

 *W. H. Wood, Asst. in Hort.

Poultry Husbandry:

- *†‡M. A. Jull, Ph. D., Prof. and Head of Dept.
 *†‡G. F. Combs, Ph. D., Prof. Poultry Husb.
 ‡R. H. Hinds, B. S., Assoc. Prof. Poultry,
 †Mary Juhn, Ph. D., Res. Prof. Poultry
 Physiol.
- *†‡G. D. Quigley, B. S., Assoc. Prof. Poultry Husb. ‡W. H. Rice, B. S., Ext. Assoc. Prof. Poultry
- *itC. S. Shaffner, Ph. D., Prof. Poultry Husb.
 †Mary Shorb, Ph. D., Prof. Poultry Husb.
 †P. F. Twining, B. S., Ext. Assoc. Prof. Poultry Husb.

State Inspection and Regulatory Service:

- ate Inspection and Regulatory Service:

 *L. E. Bopst, B. S., Prof. Chem. (State Chem.)

 *R. E. Baumgartner, B. S., Agr. Chem.

 *N. S. Chapman, Chem.

 *E. C. Donaldson, M. S., Insp.

 *W. J. Footen, Insp.

 *R. G. Fuerst, Chem.

 *A. B. Heagy, B. S., Agr. Chem.

 *A. B. Heagy, B. S., Agr. Chem.

 *J. E. Schueler, Jr., B. S., Agr. Chem.

 *W. C. Supplee, Ph. D., Biochem.

 *H. R. Walls, Chem. and Micro-Analyst.

 *E. M. Zentz, Insp.

Miscellaneous:

*C. W. E. Hintz, A. M., L. S., Libr. †Mrs. Mary DeLoach, Asst. Visual Aids. ‡E. C. Jenkins, M. S., Asst. Prof. Distribution Agt.

Maryland State College, Division of the University of Maryland, Princess Anne

*Agricultural faculty.

*J. T. Williams, Ed. D., President. *C. O. Stout, Ed. D., Dean.

- *A. B. Davis, B. S., Asst. in An. Husb.
 *Alethia A. Elps, M. S., Asst. Prof. Cloth-

- *J. A. Oliver, M. S., Asst. Prof. Agr.

 *A. W. Shute, M. S., Chair. of Div. and Prof. An. Husb.

 *J. V. Strickland, Assoc. Prof. Agr. and Poultry.

 *M. W. Vaughn, M. S., Asst. Prof. Agr. and
- Poultry. *Lorene H. White, Instr. Nutr.

MASSACHUSETTS

School of Agriculture and the Agricultural Experiment Station of the University of Massachusetts, Amherst

*College faculty. †Stati †Station staff. aff. ‡Extension staff. ||Military leave.

- *R. A. Van Meter, Ph. D., President of University.

 *†D. H. Sieling, Ph. O., Dean of Agr., Dir. of Sta.

 *‡J. W. Dayton, B. S., Assoc. Dean of Agr., Dir. of Ext. Service.

 *R. H. Verbeck, B. S., Dir. of Short Course Div. and Stockbridge School of Agr.

 *†R. D. Hawley, B. S., M. B. A., Treas.

 *J. W. Burke, B. S., Seoy.

Agronomy:

- †W. G. Colby, Ph. D., Head of Dept. *L. S. Dickinson, M. S., Assoc. Prof. Agros-
- tology.

 ‡R. W. Donaldson, B. S., Ext. Agron.

 †W. S. Eisenmenger, Ph. D., Res. Prof.

- †W. S. Eisenmenger, Fh. D., Agron.
 *J. N. Everson, M. S., Asst. Prof. Agron.
 †E. F. Gaskill, B. S., Head of Sta. Service.
 †C. V. Kightlinger, M. S., Res. Prof. Agron.
 †K. J. Kucinski, Ph. D., Asst. Res. Prof. Agron. (Goop. U. S. D. A.).
 *J. L. Parsons, M. S., Instr. Agron.
 *C. H. Thayer, B. Agr., Asst. Prof. Agron.
 †H. M. Yegian, B. S., Res. Asst. in Agron.
 *J. M. Zak, M. S., Instr. Agron.

Animal Husbandry:

- *†V. A. Rice, D. Agr., Head of Dept.
 †J. G. Archibald, M. S., Res. Prof. An. Husb.
 *M. L. Blaisdell, B. S., Asst. Prof. An. Husb.
 ‡B. E. Colby, B. S., Ext. Prof. An. Husb.
 *W. A. Cowan, B. S., Asst. Prof. An. Husb.
 *J. M. Elliot, B. S., Instr. An. Husb.
 *R. C. Foley, M. S., Prof. An. Husb.
 *N. S. Hale, B. S., Asst. Prof. An. Husb.
 *J. T. Timberlake, M. S., Instr., An. Husb.

Bacteriology:

- *†L. A. Bradley, Ph. D., Head of Dept.
 †J. M. Dickerman, Ph. D., Asst. Res. Prof.
 Bact.

 *Aldis E. Flint, Tech. Asst. in Bact.
 *R. L. France, M. S., Assoc. Prof. Bact.
 †J. E. Fuller, Ph. D., Res. Prof. Bact.
 *Mary E. M. Garvey, B. S., Assoc. Prof.
 Bact.
 *Irving Lipovsky, M. S., Asst. Prof. Bact.
 *R. C. Perriello, B. S., Asst. Prof. Bact.

Botany:

- *T. T. Kozlowski, Ph. D., Prof. Bot. and Actg. Head of Dept.

 †R. W. Ames, M. S., Asst. Res. Prof. Bot.

 *B. R. Anderson, B. S., Instr. Bot.

 *W. M. Banfield, Ph. D., Asst. Prof. Bot.

 ‡O. C. Boyd, Ph. D., Ext. Plant Path.

 *C. A. Bricknell, B. S., Instr. Bot.

 †W. L. Doran, M. S., Res. Prof. Bot.

 *R. D. Dunton, M. S., Instr. Bot.

 †E. F. Guba, Ph. D., Res. Prof. Bot. (P. O., Waltham).

 *W. H. Hodge, Ph. D., Assoc. Prof. Bot.

 †L. H. Jones, Ph. D., Asst. Res. Prof. Bot.

 *R. B. Livingston, Ph. D., Asst. Prof. Bot.

 †D. H. Marsden, B. S., Plant Path.

- Botany-Continued

 - †M. A. McKenzie, Ph. D., Res. Prof. Bot. †Gladys I. Miner, Herbarium Curator. *E. C. Putala, B. S., Instr. Bot. *J. L. Spencer, B. S., Instr. Bot. *R. E. Torrey, Ph. D., Prof. Bot. †W. H. White, Lab. Asst.

Chemistry:

- *†W. S. Ritchie, Ph. D., Head of Dept., Goessmann Prof. Chem.
 †J. W. Kuzmeski, B. S., Chief of Lab., Control Service.
 †Jessie L. Anderson, Res. Asst. in Seed Control

 - trol.
 - †Emmett Bennett, Ph. D., Asst. Res. Prof.
 - Chem.

 *G. W. Cannon, Ph. D., Assoc. Prof. Chem.

 *K. D. Cashin, M. S., Asst. Prof. Chem.
- *G. W. Cashin, M. S., Acov.

 *K. D. Cashin, M. S., Instr. Chem. Engin.

 *F. M. Chakour, M. S., Instr. Chem. Engin.

 †Joseph Conklin, Insp. Control Service.

 †§L. V. Crowley, B. S., Junior Chem. in Control Service.

 ** M. Cruickshank, M. S., Instr. Chem.
- *A. M. Cruickshank, M. S., Instr. Chem. *Mack Drake, Ph. D., Prof. Chem. *Mrs. Bertha E. Fessenden, B. S., Lab. Asst.
 - in Chem.

 *R. W. Fessenden, Ph. D., Asst. Prof. Inorg. Chem.
- Chem.

 †A. D. Holmes, Ph. D., Res. Prof. Chem.
 †C. P. Jones, M. S., Asst. Res. Prof. Chem.
 †F. A. McLaughlin, B. S., Assoc. Res. Prof.
 in Seed Control.

 *G. L. Oberlander, B. S., Instr. Chem.
 *|E. M. Parrott, Ph. D., Instr. Chem.
 *E. S. Pierce, M. S., Instr. Chem.
 *S. E. Polchlopek, M. S., Instr. Chem.
 *J. E. Roberts, M. S., Asst. Prof. Chem.
 *J. H. Smith, Ph. D., Assoc. Prof. Chem.
 †A. F. Spelman, B. S., Senior Chem. in Feeds and Fert.
 *R. S. Stein, Ph. D., Asst. Prof. Chem.

Dairy Industry:

- *†D. J. Hankinson, Ph. D., Head of Dept.

 *F. T. Canavan, Supt. of Dairy Mfrs.

 *E. J. Finnegan, B. S., Instr. Dairy Indus.

 †S. N. Gaunt, B. S., Ext. Prof. Dairying.

 *H. G. Lindquist, M. S., Asst. Prof. Dairy
- *H. G. Linuquist, M. S., Asst. Froj. Dany Indus. †W. S. Mueller, Ph. D., Asst. Res. Prof. Dairy Indus. *D. H. Nelson, Ph. D., Asst. Prof. Dairying. ‡C. H. Parsons, M. S., Prof. Dairy Indus.

Economics:

*†P. L. Gamble, Ph. D., Head of Dept.
*R. M. Colwell, M. S., Asst. Prof. Business Admin.

*Monin.
*Milliam Haller, M. A., Asst. Prof. Econ.
*Sherman Hoar, Asst. Prof. Econ.
*B. R. Morris, Ph. D., Prof. Econ.
*F. P. Murphy, B. S., Instr. Econ.
†David Rozman, Ph. D., Res. Prof. Econ.
†Ruth E. Sherburne, B. S., Res. Asst. in

Econ.
*F. A. Singer, M. B. A., Instr. Econ.
*H. W. Smart, A. B., LL. B., Asst. Prof.
Business Admin.

Economics (Agr.) and Farm Management:

*†A. H. Lindsey, Ph. D., Head of Dept.

*R. H. Barrett, M. S., Prof. Farm Mgt.

†E. W. Bell, M. S., Ext. Econ.

‡F. H. Branch, B. S., Ext. Econ., Farm Mgt.

†A. A. Brown, M. S., Assoc. Res. Prof. Agr.

Econ. and Farm Mgt.

†Barbara E. Brown, A. B., Res. Asst. Agr.

Econ.

†R. W. Brundage, M. S., Instr. Agr. Econ.
†B. D. Crossmon, M. S., Assoc. Prof. Agr.
Econ.

†R. A. Fitzpatrick, B. S., Asst. Res. Prof. Agr. Econ. R. E. Moser, M. S., Ext. Econ., Farm Mgt. *Sargent Russell, M. S., Asst. Prof. Agr.

Econ. †H. G. Spindler, M. B. A., Asst. Prof. Agr.

Econ. ‡G. W. Westcott, M. S., Ext. Econ.

Editorial:

*A. B. Musgrave, Dir. of Pubs. ‡R. H. Bunn, B. S., Ext. Editor. ‡E. S. Carpenter, M. S., Ext. Spec. in Visual

*Ed. †F. Ethel Felton, B. A., Sta. Editor. ‡G. A. Van Horn, B. A., Ext. Editor.

*A. W. Purvis, Ed. D., Prof. and Head of Dept.

*D. J. McCarthy, Ed. M., Asst. Prof. Ed.

*C. F. Oliver, M. S., Asst. Prof. Ed.

*W. M. Rourke, M. S., Asst. Prof. Ed.

*Raymond Wyman, Ed. M., Asst. Prof. Ed.

Engineering:

*G. A. Marston, B. S. C. E., Dean of School. *Richard Atherton, M. E., Asst. Prof. Mech. Engin.

*M. E. Bates, Ph. D., Actg. Head Dept. of Mech. Engin. *R. R. Brown, M. S., Actg. Head Dept. of Electrical Engin. *H. N. Stapleton, M. S., Head Dept. Agr.

Engin.

*E. J. Anderson, M. S., Asst. Prof. Civil

*B. J. Andelson, A. S., Asst. Mech. Engin.

*N. C. Card, B. M. E., Instr. Mech. Engin.

*C. E. Carver, Jr., B. S., Instr. Civil Engin.

*S. Y. Chang, M. S., Asst. Prof. Electrical

*S. Y. Chang, M. S., Ass. Engin.

*J. F. Coffey, B. S., Instr. Mech. Engin.

*Earle Cox, M. S., Prof. Agr. Engin.

*J. H. Dittfack, M. S., Asst. Prof. Mech. *J. H. Dittfack, M. S., Engin.

*E. D. Emerson, S. B., Asst. Prof. Mech.

Engin.

Cabrys. D. Eng., Instr. Civil Engin.

Engin.

*Joseph Gabrys, D. Eng., Instr. Civil Engin.

*T. A. Grow, B. S., Instr. Civil Engin.

‡W. C. Harrington, M. E., Ext. Agr. Engin.

*K. N. Hendrickson, M. S., Assoc. Prof. Civil Engin.

*S. J. Jatras, B. S., Instr. Electrical Engin.

*C. A. Keyser, M. S., Assoc. Prof. Metallurgy.

*W. S. Lake, M. Ed., Asst. Prof. Mech. Engin.

*W. S. Lake, M. Bod, Assoc. 1707, McC., Engin.

*J. W. Langford, Jr., S. M., Assoc. Prof. Electrical Engin.

*M. P. Levine, B. S., Instr. Electrical Engin.

*J. B. Longstaff, M. S., Asst. Prof. Mech. Engin. Engin.

Engineering-Continued

*J. S. Marcus, B. S., Instr. Civil Engin. *M. J. Markuson, B. S., Assoc. Prof. Agr. *M. J. Ma Engin.

*R. F. Marsh, B. S., Instr. Electrical Engin. *J. W. Mohn, M. E., Asst. Prof. Electrical

Engin.
*E._C. Osgood, D. Eng., Assoc. Prof. Civil

*E. C. Osgood, D. Eng., Assoc. Prof. Civil Engin.

*R. K. Patterson, Instr. Agr. Engin.

*I. J. Pflug, B. S., Asst. Prof. Agr. Engin.

*G. F. Pushee. Asst. Prof. Agr. Engin.

*E. S. Sachse, B. S., Instr. Electrical Engin.

*W. W. Smith, B. E. E., Asst. Prof. Electrical Engin.

*Daniel Sobala, S. B., Instr. Mech. Engin.

*J. D. Swenson, M. A., Prof. Mech. Engin.

*W. H. Tague, B. S., Asst. Prof. Agr. Engin.

*W. H. Weaver, M. S., Prof. Mech. Engin.

*M. P. White, Ph. D., Prof. Oivil Engin.

*N. E. Wilson, M. S., Assoc. Prof. Electrical Engin.

*C. H. Wolowicz, M. S., Assoc. Prof. Mech. Engin.

Entomology and Zoology:

*†C. P. Alexander, Ph. D., Head of Dept. and Actg. Dean School of Sci.
†W. B. Becker, Ph. D., Asst. Res. Prof. Ent.
†A. I. Bourne, B. A., Res. Prof. Ent.
*L. C. Dearden, M. A., Instr. Zool.
*Gordon Field, M. S., Instr. Ent.
†W. J. Garland, Tech. Asst. in Ent. (P. O., Waltham).

*J. F. Hanson, Ph. D., Asst. Prof. Insect

*J. F. Hanson, P.L. D., Asst. Proj. Insect. Morphol.

*W. B. Nutting, M. S., Instr. Zool.

*Harold Rauch, Ph. D., Instr. Zool.

*H. D. Rollason, Ph. D., Asst. Prof. Zool.

*F. R. Shaw, Ph. D., Asst. Prof. Ent. and Pocheoning

*F. R. Shaw, Ph. D., Asst. Prof. Ent. and Beekeeping.

*Marion E. Smith, Ph. D., Instr. Ent.

*H. L. Sweetman, Ph. D., Asst. Prof. Ent.

*J. R. Traver, Ph. D., Asst. Prof. Zool.

‡E. H. Wheeler, Ph. D., Ext. Ent.

†W. D. Whitcomb, B. S., Res. Prof. Ent.

(P. O., Waitham).

*G. L. Woodside, Ph. D., Prof. Biol.

Extension Administration:

ttension Administration:

‡J. W. Dayton, B. S., Dir.

‡D. P. Allan, B. A., Secy.

‡H. S. Vaughan, State Agr. Agt. Leader.

‡L. V. Loy, M. S., Community Organ. and Recreation Spec.

‡H. Ruth McIntire, B. S., Recreation Spec.

‡G. O. Oleson, M. S., Information Spec.

‡Beatrice B. Billings, M. A., State Home Dem. Leader.

‡Barbara Higgins, B. S., Home Dem. Agt. at Large.

Large H. M. Jones, B. S., State Club Leader.
†H. M. Jones, B. S., Asst. State Club Leader.
†H. A. Leland, B. S., Asst. State Club Leader.
†H. H. Nodine, B. S., M. Ed., Asst. State Club

Forestry and Wildlife Management:

*†R. P. Holdsworth, B. S., M. F., Head of

**R. P. Holdsworth, B. S., M. F., Head of Dept.

**A. B. Cole, M. F., Instr. For.

**W. P. MacConnell, M. F., Instr. For.

†*R. B. Parmenter, B. S., Ext. For.

**A. D. Rhodes, B. S., M. F., Prof. For.

**J. H. Rich, B. S., M. F., Assoc. Prof. For.

**P. W. Stickel, M. F., Asst. Prof. For.

**R. E. Trippensee, Ph. D., Prof. Wildlife Mgt.

History and Sociology:

*H. W. Cary, Ph. D., Head of Dept.
*John Ashton, B. A., Instr. History.
*Marie Boas, A. M., Asst. Prof. History.
*T. C. Caldwell, Ph. D., Prof. History.
*J. G. Carnes, M. A., Instr. History.
*W. A. Davis, M. A., Asst. Prof. History.

History and Sociology-Continued

*F. W. Dotson, B. A., Instr. Sociol. *E. D. Driver, M. A., Instr. Sociol. *V. L. Ferwerda, M. S., Asst. Prof. Government.

*Ment. *George Goodwin, A. M., Instr. Government. *J. H. Korson, M. A., Prof. Sociol. *J. F. Manfredi, M. A., Instr. Sociol. *W. A. Mitchell, Ph. D., Assoc. Prof. Gov-

ernment.
*R. A. Potash, M. A., Instr. History.
*E. R. Walker, M. A., Instr. Government.
*J. K. Zeender, M. A., Asst. Prof. History.

Home Economics:

*Helen S. Mitchell, Ph. D., Dean of School, ‡Erma O. Bamesberger, B. S., Ext. Prof. Home Econ. *Mildred Briggs, M. S., Asst. Prof. Home

Econ

*Mrs. Gladys M. Cook, M. S., Asst. Prof.

Home Econ.
*Dorothy Davis, M. A., Instr. Home Econ.
‡May E. Foley, A. M., Est. Nutr.
†Charlotte E. Greenfield, M. S., Res. Instr.

Home Econ.
†Gladys C. Hagan, B. S., Instr. Home Econ.
*Alice E. Jané, M. A., Asst. Prof. Home *Alice

*Affec E. Jane, M. A., Asst. 1703. Home Econ. ‡Mrs. N. May Larson, M. S., Ext. Spec. in Child Development and Parent Ed. †Mary E. Lojkin, Ph. D., Asst. Prof. Home Econ. *Oreana A. Merriam, M. S., Asst. Prof. Home

Econ.

†Mrs. Esther C. Page, B. S., Clothing Spec. †Mrs. Sara C. Piatt, M. S., Asst. Prof. Home Econ

*Mrs. Emily P. Thies, B. S., Instr. Home Econ.

†Mrs. Anne W. Werts, A. B., Res. Prof. Home Econ.
*Mrs. Margaret K. Wilhelm, B. S., Instr.

Home Econ.

Horticulture:

*†C. L. Thayer, B. S., Prof. and Head Dept. of Flor.

†C. R. Fellers, Ph. D., Head Dept. of Hort.

Mfrs.

†A. P. French, M. S., Head Dept. Pomol.

*R. H. Otto, M. L. A., Head Dept. of Landsc.

Arch.

†G. B. Snyder, M. S., Head Dept. of Oler.

*E. E. Anderson, Ph. D., Asst. Prof. Food Technol.

Technol.

*J. F. Anderson, M. S., Instr. Pomol.

*O. G. Anderson, B. S., Asst. Prof. Pomol.

†J. S. Bailey, M. S., Asst. Res. Prof. Pomol.

‡J. R. Beattie, M. S., Est. Cranberry Spec.

*L. L. Blundell, B. S., Prof. Hort.

†P. F. Bobula, M. S., Res. Asst. in Nursery

Culture.

‡A. W. Boicourt, M. S., Asst. Ext. Prof.

Hort.

†N. W. Butterfield, M. S., Asst. Res. Prof.

†N. W. Butterfield, M. S., Asst. Res. Prof. Flor.
†F. J. Campbell, B. S., Instr. Flor.
†P. W. Dempsey, B. S., Asst. Res. Prof. Hort.
(P. O., Waltham).
†N. W. Desrosier, Ph. D., Asst. Res. Prof. Food Technol.

†E. B. Donnelly, Tech. Asst. in Flor. (P. O., Waltham).

*C. W. Dunham, B. S., Instr. Flor.
†W. B. Esselen, Ph. D., Assoc. Res. Prof.
Hort. Mfrs.
†I. S. Fagerson, M. S., Asst. Res. Prof.

Food Tech.
*||W. H. Fitzpatrick, Ph. D., Asst. Prof. Food

Tech

Tech.
†C. J. Gilgut, Ph. D., Asst. Res. Prof. Nursery Culture (P. O., Waltham).
*T. S. Hamilton, B. S., Instr. Landsc. Arch.
*S. C. Hubbard, Asst. Prof. Flor.
*W. B. Johnson, B. S., Instr. Oler.
*G. S. King, B. S., Asst. Prof. Arboriculture.
†R. M. Koon, M. S., Res. Prof. Hort. (P. O., Waltham).

Horticulture-Continued

†W. H. Lachman, Jr., M. S., Asst. Res. Prof. Veg. Gard. *A. S. Levine, Ph. D., Asst. Prof. Food

*A. S. Lev Technol.

*I. T. MacIver, Instr. Landsc. Arch.

*P. N. Procopio, B. S., Instr. Hort.

*O. C. Roberts, M. S., Asst. Prof. Pomol.

*James Robertson, Jr., B. Arch., Assoc. Prof.

*James Robertson, Jr., B. Arcn., Assoc. Froj. Landsc. Arch.
*D. E. Ross, B. S., Asst. Prof. Flor.
†F. W. Southwick, Ph. D., Res. Prof. Pomol.
‡W. H. Thies, M. S., Ext. Hort. (Pomol.)
‡C. L. Thomson, M. S., Ext. Prof. Veg. Crops.
*A. P. Tuttle, M. S., Asst. Prof. Veg. Gard.
†H. E. White, M. S., Res. Prof. Flor. (P. O., Waltham)

†R. E. Young, M. S., Assoc. Res. Prof. Veg. Gard. (P. O., Waltham).

Poultry Husbandry:

*†F. P. Jeffrey, M. S., Head of Dept. *Luther Banta, B. S., Asst. Prof. Poultry Husb.

†C. D. Bra Disease. D. Brandt, B. S., Res. Instr. Poultry

†F. A. Hays, Ph. D., Res. Prof. Poultry Husb.

†G. T. Klein, M. S., Ext. Poultry Husb.

*W. C. Sanctuary, M. S., Prof. Poultry Husb.

†J. R. Smyth, Jr., Ph. D., Asst. Res. Prof. Poultry Husb.
*J. H. Vondell, Asst. Prof. Poultry Husb.

Station Administration:

†D. H. Sieling, Ph. D., Dir. †Margaret H. O'Donnell, Assoc. Dir †Dorothy E. Mallory, Secy. to Dir.

Veterinary Science:

*†J. B. Lentz, A. B., V. M. D., Head of Dept.
†Henry Van Roekel, D. V. M., Ph. D., Res.
Prof. Vet. Sci.
†Betty A. Bachman, M. A., Res. Instr.
Poultry Disease.
†K. L. Bullis, D. V. M., M. S., Res. Prof. Vet.

Path.
†Miriam K. Clarke, M. S., Res. Asst. Prof.
Poultry Disease Control.
†Earl Crosby, Lab. Asst. in Poultry Disease

†G. P. Faddoul, D. V. M., Res. Prof. Poultry

Disease.
. W. Fellows, A. B., Res. Instr. Poultry

Disease.

†O. S. Flint, B. S., Asst. Res. Prof. Vet. Path.

†W. K. Harris, D. V. M., Res. Prof. Mastitis Testing Lab.

†S. B. Hitchner, V. M. D., Asst. Res. Prof. Vet. Sci.

†Mrs. Felicia Z. Jewett, Lab. Asst. in Poultry Disease Control.

†Olga M. Olesiuk, M. S., Res. Instr. Poultry Disease

Disease. *R. E. Smith, V. M. D., Assoc. Prof. Vet. Sci. †G. H. Snoeyenbos, D. C. M., Res. Prof. Avian Path.

†D. N. Stern, V. M. D., Ext. Prof. An. Path.

Miscellaneous:

†L. R. Parkinson, M. S., Res. Asst. in Nutr. †A. J. Spear, Lab. Asst. in Nutr. *W. G. Vinal, Ph. D., Prof. Nature Ed. *†B. B. Wood, A. B., Libr.

Substations:

Cranberry Sta., P. O., East Wareham— H. J. Franklin, Ph. D., in charge. F. B. Chandler, Ph. D., Res. Prof. Cran-

berry Culture.
C. E. Cross, Ph. D., Asst. Res. Prof. Cronherry Culture.
J. L. Kelley, Tech. Asst. in Cranberry Culture.

Waltham Field Sta., P. O., Waltham-R. M. Koon, M. S., in charge. H. A. Wilson, Foreman.

MICHIGAN

Michigan State College of Agriculture and Applied Science and the Agricultural Experiment Station, East Lansing

*College faculty. †Station staff. ‡Extension staff. &Leave of absence.

```
*J. A. Hannah, B. S., D. Agr., LL. D., President.

*E. L. Anthony, M. S., Dean School of Agr.

*C. R. Megee, Ph. D., Asst. Dean in charge Agr. Instr.

†C. M. Hardin, Ph. D., Asst. Dean and Dir. of Expt. Sta.

†R. E. Marshall, Ph. D., Asst. Dir. of Expt. Sta.

†C. V. Ballard, B. S., Asst. Dir. of Dir. of Ext. Service.

‡H. A. Berg, M. S., Asst. Dir. of Ext. Service.

*P. A. Herbert, Ph. D., Dir. Div. of Conserv.

*†Philip May, Treas. and Comptroller.
```

Animal Husbandry:

*†R. H. Nelson, Ph. D., Prof. and Head of

*†R. H. Nelson, Ph. D., Prof. and Head of Dept.

*†L. H. Blakeslee, Ph. D., Assoc. Prof.

‡G. L. Blank, M. S., Assoc. Prof. Ext.

*†G. A. Branaman, Ph. D., Prof.

*†L. J. Bratzler, M. S., Assoc. Prof.

†§G. A. Brown, B. S., Prof.

†E. D. Farwell, M. S., Asst. Prof.

‡W. L. Finley, B. S., Asst. Prof. Ext.

*†B. H. Good, M. S., Assoc. Prof. and Supt.

of Farm.

*†J. A. Hoefer, Ph. D., Prof.

†‡H. F. Moxley, B. S., Asst. Prof. Ext.

*†H. W. Newland, M. S., Asst. Prof.

*R. B. Warren, M. S., Asst. Prof.

*R. B. Warren, M. S., Asst. Prof.

Bacteriology Medicine. hna Hygiene-See Veterinary

Botany and Plant Pathology:

Sotany and Plant Pathology:

*†W. B. Drew, Ph. D., Prof. and Head of Dept.

*C. J. Alexopoulos, Ph. D., Assoc. Prof.

‡E. A. Andrews, M. S., Asst. Prof. Ext.

*H. C. Beeskow, M. S., Asst. Prof.

*E. S. Beneke, Ph. D., Asst. Prof.

*†Donald Cation, M. S., Asst. Prof.

†D. J. deZeeuw, Ph. D., Asst. Prof.

†J. J. deZeeuw, Ph. D., Asst. Prof.

†J. J. deZeeuw, Ph. D., Asst. Prof.

†J. H. Grigsby, Ph. D., Assoc. Prof.

†M. R. Hatfield, M. S., Instr.

*T. T. McClure, Ph. D., Asst. Prof.

†M. R. Hatfield, M. S., Instr.

†J. H. Muncie, Ph. D., Asst. Prof.

†Mrs. Marie Mooar, M. S., Instr.

†J. H. Muncie, Ph. D., Prof.

†G. W. Prescott, Ph. D., Prof.

*G. W. Prescott, Ph. D., Assoc. Prof.

†Mrs. Miriam C. Strong, M. S., Asst. Prof.

†Mrs. Miriam C. Strong, M. S., Asst. Prof.

*J. R. Vaughn, Ph. D., Assoc. Prof.

*J. R. Vaughn, Ph. D., Assoc. Prof.

*G. B. Wilson, Ph. D., Assoc. Prof.

*G. B. Wilson, Ph. D., Assoc. Prof.

*T. L. Wynd, Ph. D., Prof.

Chemistry (Agr.):

†E. J. Miller, Ph. D., Prof. and Head Dept.

Selma L. Bandemer, Ph. D., Assoc. Prof.

†E. J. Benne, Ph. D., Prof.

†Mrs. Helen A. Butts, Instr.

†C. W. Duncan, M. S., Assoc. Prof.

†R. J. Evans, Ph. D., Prof.

†R. J. Evans, Ph. D., Prof.

†R. M. Grimes, M. S., Instr.

†R. M. Grimes, M. S., Instr.

†Betty R. Johnston, B. S., Instr.

†Betty R. Johnston, B. S., Instr.

†Anna M. Redder, M. N. S., Instr.

†C. T. Redemann, Ph. D., Instr.

†H. M. Sell, Ph. D., Prof.

†Mrs. Betty Taylor, B. A., Instr.

†Sarah T. Wade, M. S., Instr.

†L. E. Weller, B. S., Instr. †E. J. Miller, Ph. D., Prof. and Head of

Conservation (Div.):

*P. A. Herbert, Ph. D., Dir. *W. I. Bull, B. S., Supt. Forest Nurseries.

CONSERVATION INSTITUTE:

*†‡L. R. A. Schoemmann, B. S., Head of Dept.

‡P. M. Barrett, B. S., Assoc. Prof.

‡L. J. Braamse, B. S., Asst. Prof.

*Karl Dressel, B. S. M. F., Assoc. Prof.

††C. A. Gunn, B. S., Asst. Prof.

‡W. S. Harrison, B. S., Asst. Prof.

†R. G. Hill, B. S., Asst. Prof.

†Gladys Knight, M. A., Asst. Prof.

†R. W. McIntosh, B. S., Asst. Prof.

†Gertrude Miller, B. S., Asst. Prof.

†J. F. Schneider, B. S., Asst. Prof.

†J. F. W. Suggitt, M. S., Asst. Prof.

*A. T. Wilcox, M. S., Asst. Prof.

†‡L. A. Wolfanger, Ph. D., Assoc. Prof. CONSERVATION INSTITUTE:

FISHERIES AND WILDLIFE:

*†P. I. Tack, Prof. and Head of Dept.

*†P. C. Ball, Ph. D., Assoc. Prof.

*†L. W. Gysel, Ph. D., Assoc. Prof.

*†Walter Lemmien, B. S., For., W. K. Kellogg Forest (P. O., Augusta)

*G. A. Petrides, Ph. D., Assoc. Prof.

*M. D. Pirnie, Ph. D., Assoc. Prof.

*†A. E. Staebler, Ph. D., Dir. W. K. Kellogg

Bird Sanctuary.

FORESTRY:

Forestry:

*†‡T. D. Stevens, Ph. D., Prof. and Head of Dept.

*C. I. Arnold, M. F., For., Russ Forest (P. O., Decatur).

‡L. E. Bell, B. S., Asst. Ext. Prof.

*L. A. Carter, B. S., Instr.

*†M. W. Day, M. F., Asst. Prof. (P. O., Sault Ste. Marie).

*R. E. Dils, M. F., Asst. Prof.

‡J. N. Fields, B. S., Asst. Ext. Prof.

*E. J. Hodgkins, M. S., Asst. Prof.

*R. K. Hudson, M. S., Asst. Prof.

*Walter Lemmien, B. S., For., W. K. Kellogg Forest (P. O., Augusta).

‡W. B. Love, B. S., Asst. Ext. Prof.

*J. E. Mausteller, B. S., Instr.

*P. W. Robbins, M. F., Assoc. Prof.

‡R. E. Skog, B. S., Asst. Ext. Prof.

*H. A. Stoehr, M. F., Asst. Prof.

WOOD UTILIZATION:

*†A. J. Panshin, Ph. D., Prof. and Head of Dept.

*†J. W. Creighton, A. B., B. S., Asst. Prof.

*R. C. Deckert, M. F., Asst. Prof.

*J. L. Hill, M. F., Instr.

*W. B. Lloyd, M. F., Asst. Prof.

*W. C. Randel, M. F., Asst. Prof.

Dairy:

*†Earl Weaver, Ph. D., Prof. and Head of

Dept.

‡A. C. Baltzer, B. S., Dairy Spec.

†J. R. Brunner, M. S., Asst. Prof.

‡J. G. Hays, B. S., Dairy Spec.

Dairy-Continued

Dairy—Continued

*†C. F. Huffman, Ph. D., Prof.

*†J. M. Jensen, M. S., Asst. Prof.

‡L. A. Johnson, M. S., Dairy Spec.

*†R. C. Lewis, M. S., Instr.

*†P. S. Lucas, M. S., Assoc. Prof.

‡W. B. Lutz, M. S., Dairy Spec. (P. O., Chatham).

*†J. A. Meiser, Jr., Ph. D., Asst. Prof.

‡D. L. Murray, M. S., Dairy Spec.

‡G. E. Parsons, M. S., Dairy Spec.

‡S. E. Parsons, M. S., Dairy Spec.

*†W. W. Snyder, M. S., Assoc. Prof.

*†W. W. Snyder, M. S., Assoc. Prof.

*†G. M. Trout, Ph. D., Prof.

Economics (Agr.):

*†T. K. Cowden, Ph. D., Prof. and Head of

Economics (Agr.):

*†T. K. Cowden, Ph. D., Prof. and Heapert.

Pept.

†Raleigh Barlowe, Ph. D., Assoc. Prof.

†Raleigh Barlowe, Ph. D., Asst. Prof.

†L. L. Boger, Ph. D., Asst. Prof.

†L. L. Boger, Ph. D., Asst. Prof.

†L. L. Bowen, Ph. D., Asst. Prof.

†L. L. Bowen, Ph. D., Asst. Prof.

†L. L. Bowen, Ph. D., Asst. Prof.

†L. C. Doneth, M. S., Asst. Prof.

†J. C. B. Ellwood, M. S., Asst. Prof.

†J. C. B. Hallwood, M. S., Asst. Prof.

†R. T. Hartwig, B. S., Asst. Prof.

†R. A. Higgins, M. S., Asst. Prof.

†T. L. Hodge, M. S., Instr.

†C. R. Hoglund, M. S., Asst. Prof.

†T. L. Hodge, M. S., Instr.

†R. C. Kramer, M. S., Instr.

†R. C. Kramer, M. S., Instr.

†R. C. Kramer, M. S., Instr.

†Arthur Mauch, Ph. D., Asst. Prof.

†A. B. Love, B. S., Asst. Prof.

†C. E. Peterson, M. S., Asst. Prof.

†C. E. Peterson, M. S., Asst. Prof.

†C. E. Prentice, B. S., Asst. Prof.

†C. E. Prentice, B. S., Asst. Prof.

†J. D. Shaffer, B. A., Instr.

†D. H. Stark, B. S., Asst. Prof.

†M. S., Varner, B. S., Asst. Prof.

†K. A. Vary, Ph. D., Asst. Prof.

†K. A. Vary, Ph. D., Asst. Prof.

†K. T. Wright, Ph. D., Prof.

**C. V. Willard, Ph. D., Prof.

Education (Agr.):

ducation (Agr.):

*C. V. Millard, Ph. D., Prof. and Dir. of Div.

*Mrs. Merle D. Byers, A. M., Assoc, Prof.
Voc. Teacher Training and Chair. Home
Econ. Ed.

*H. N. Byram, Ph. D., Prof. Voc. Teacher
Training and Chair. Agr. Ed.

*L. A. Cheney, A. M., Asst. Prof. Voc.
Teacher Training.

*R. M. Clark, M. S., Asst. Prof. Voc. Teacher
Training.

*D. W. Dalgleish, A. M., Asst. Prof. Voc.
Teacher Training.

*R. A. Garner, A. M., Asst. Prof. Voc.
Teacher Training.

*M. A. Garner, A. M., Asst. Prof. Voc.
Teacher Training.

*Milton Hagelberg, Instr. Voc. Teacher

*Milton Hagelberg, Instr. Voc. Teacher Training.

*Amy J. Holmblade, A. M., Instr. Voc. Teacher Training.

*Mary L. Hurt, M. S., Asst. Prof. Voc. Teacher Training and Supervising Teacher in Home Econ. Ed.

*C. L. Langdon, A. M., Asst. Prof. Voc. Teacher Training.

*Rosalind B. Mentzer, A. M., Asst. Prof. Ed.

*T. R. Miller, A. M., Asst. Prof. Voc. Teacher Training.

*Beatrice O. O'Donnell, A. M., Asst. Prof. Ed.

*Beatrice O. O'Donnell, A. M., Asst. Prof. Ed.

*J. A. Prescott, A. M., Asst. Prof. Voc. Teacher Training.

*Clyde Ray, Instr. Voc. Teacher Training.

*W. P. Schroeder, M. A., Asst. Prof. Voc. Teacher Training.

Education (Agr.) -Continued

*H. P. Sweany, Ph. D., Assoc. Prof. Voc. Teacher Training. *G. E. Timmons, M. S., Asst. Prof. Voc.

*G. E. Timmons, M. S., Asst. Prof. Voc. Teacher Training. *Meta W. Vossbrink, M. A., Asst. Prof. Voc. Teacher Training and Itinerant Teacher Training in Home Econ.

Engineering (Agr.):

*†A. W. Farrall, M. S., Prof. and Head of Dept.

*C. F. Albrecht, M. S., Asst. Prof. Agr.
Engin.

Engin.

†George Amundson, B. S., Project Leader, Agr. Engin. Ext.

*M. L. Bailey, M. S., Asst. Prof. Agr. Engin. †A. J. Bell, B. S., Agr. Engin. Spec.

*†J. S. Boyd, M. S., Asst. Prof. Agr. Engin. †T. J. Brevik, M. S., Asst. Prof. Agr. Engin. †W. M. Carleton, Ph. D., Assoc. Prof. Agr. Engin. †W. O. Carver, B. S., Draftsman. †H. C. Fisch, B. S., Instr. Agr. Engin. †C. M. Hansen, M. S., Asst. Prof. Agr. Engin. †C. M. P. Engin

Kapphahn, B. S., Asst. Prof. Agr.

*H. E. Kappnann, B. S., Asst. Proj. Agr. Engin.

*E. H. Kidder, M. S., Assoc. Prof. Agr. Engin.

*R. W. Kleis, B. S., Instr.

‡R. L. Maddex, B. S., Instr.

‡H. F. McColly, M. S., Prof. Agr. Engin.

*P. E. Schleusener, M. S., Instr. Agr. Engin.

†W. H. Sheldon, B. S., Asst. Prof. Agr. Engin. *H. F. MCCOHY, A. S., Instr. Agr. Eng.
*P. E. Schleusener, M. S., Instr. Agr. Eng.
*†W. H. Sheldon, B. S., Asst. Prof. A
Engin.
‡R. G. White, M. S., Agr. Engin. Spec.
*†D. E. Wiant, M. S., Prof. Agr. Engin.

Entomology:

*†Ray Hutson, M. S., Prof. and Head of Dept.

†J. R. Hoffman, Ph. D., Asst. Prof. Ent.

†R. L. Janes, Ph. D., Ext. Spec. in Ent.

*H. L. King, Ph. D., Asst. Prof. Ent.

*†IE. C. Martin, M. S., Asst. Prof. Ent.

*†W. F. Morofsky, M. S., Assoc. Prof. Ent.

†W. F. Morofsky, M. S., Assoc. Prof. Ent.

*Tranklin Sherman, III, M. S., Assoc. Prof. Ent.

Extension Administration:

‡C. V. Ballard, B. S., Dir., Asst. Dean. ‡H. A. Berg, M. S., Asst. Dir., Prof. ‡Mrs. Leona D. MacLeod, M. S., State Home Dem. Leader, Prof. Home Econ. ‡A. G. Kettunen, B. S., State 4-H Club Leader, Prof. Boys' and Girls' Club

Work.

B. D. Kuhn, B. S., Prof., State Agr. Ext. Leader.

tH. J. Foster, M. S., Dist. Ext. Supvr., Asst. Prof. A. Griffith, B. S., Dist. Ext. Supvr.,

†A. A. Griffith, B. S., Dist. Ext. Supvr., Asst. Prof. †R. E. Horwood, M. S., Dist. Ext. Supvr., Asst. Prof. (P. O., Chatham). †E. A. Wenner, B. S., Dist. Ext. Supvr., Asst. Prof. †Bentrice C. Frangquist, M. A., Asst. State Home Dem. Leader, Asst. Prof. Home

†Margaret B. Harris, M. A., Asst. State Home Dem. Leader, Assoc. Prof. Home Econ.

Econ.

Ruth J. Peck, M. A., Asst. State Home
Dem. Leader, Asst. Prof. Home Econ.

Dorothy Erler, B. S., Asst. State 4-H Club
Leader, Asst. Prof. 4-H Clubs (P. O.,
Marquette).

Verne A. Freeman, M. S., Asst. State
4-H Club Leader, Assoc. Prof. 4-H

Mrs. Corrine W. Ketchum, B. S., Asst.
State 4-H Club Leader, Asst. Prof. 4-H
Clubs.

Clubs.

‡P. G. Lundin, B. S., Asst. State 4-H Club Leader, Asst. Prof. 4-H Clubs.

Extension Administration-Continued

‡Kenneth Ousterout, B. S., Asst. State 4-H Club Leader, Asst. Prof. 4-H Clubs. ‡Nevels Pearson, B. S., Asst. State 4-H Club Leader, Asst. Prof. 4-H Clubs. ‡M. Amalle Vasold, M. A., Asst. State 4-H Club Leader, Asst. Prof. 4-H Clubs. ‡Sen Westrate, B. S., Asst. State 4-H Club Leader, Asst. Prof. 4-H Clubs. Club Leader, Asst. Prof. 4-H Clubs (P. O., Marquette).

§Ben Westrate, B. S., Asst. State 4-H. Club Leader, Asst. Prof. 4-H Clubs (P. O., Marquette).

†Marie A. Wolfe, B. S., Asst. State 4-H. Club Leader, Asst. Prof. 4-H. Clubs.

†Mary J. E. Woodward, B. S., Asst. State 4-H. Club Leader, Asst. Prof. 4-H. Clubs.

†Arden M. Peterson, B. S., Recreation Spec., 4-H. Club Dept.; Asst. Prof. 4-H. Clubs.

Farm Crops:

*†R. E. Decker, B. S., Prof. and Head of Dept. ‡R. W. Bell, M. S., Ext. Assoc. Prof. Farm

Dept.

†R. W. Bell, M. S., Ext. Assoc. Prof. Farm Orops.
†H. W. Bockstahler, M. S., Path. (Sugar Plant Invest.; Coop. U. S. D. A.).

†H. M. Brown, M. S., Asst. Prof.
†W. I. Cargo, B. S., Asst. Prof. (P. O. Marquette).

†B. R. Churchill, M. S., Assoc. Prof.
†D. L. Clanahan, M. S., Asst. Prof.
†S. T. Dexter, Ph. D., Prof.

†E. E. Down, M. Agr., Ph. D., Prof.

†K. J. Frey, Ph. D., Asst. Prof.

†C. M. Harrison, Ph. D., Prof.

‡S. C. Hildebrand, M. S., Ext. Asst. Prof.
Farm Crops.

†S. C. Hildebrand, M. S., Ext. Asst. Prof. Farm Grops.

†G. J. Hogaboam, M. S., Asst. Agron. (Sugar Plant Invest.: Coop. U. S. D. A.).

†H. L. Kohls, M. S., Asst. Prof.

†J. G. Lill, M. S., Agron. (Sugar Plant Invest.: Coop. U. S. D. A.).

††H. C. Moore, B. S., Asst. Prof.

‡L. V. Nelson, M. S., Asst. Prof.

††H. R. Pettigrove, B. S., Asst. Prof.

*†E. C. Rossman, Ph. D., Asst. Prof.

†M. B. Tesar, Ph. D., Asst. Prof.

†A. R. Wolcott, M. S., Instr.

Home Economics:

**Marie Dye, Ph. D., Dean of School, Prof. Foods and Nutr.

**Katherine M. Hart, M. S., Prof. and Head of Institution Admin.

**Irma H. Gross, Ph. D., Prof. and Head of Institution Admin.

**Ima H. Gross, Ph. D., Prof. and Head of Home Mgt. and Child Development.

**Margaret A. Ohlson, Ph. D., Prof. and Head of Foods and Nutr.

**Hazel B. Strahan, M. S., Prof. and Head of Textiles, Clothing, and Related Arts.

*Mrs. Shirley A. Agriesti, M. S., Instr. Institution Admin.

†Mrs. Lennah K. Backus, M. A., Spec. in Parent Ed. and Child Development.

**Stephania Bayor, M. A., Instr. Textiles, Clothing, and Related Arts.

*Bernice D. Borgman, M. S., Asst. Prof. Home Mgt. and Child Development.

**Wilma D. Brewer, Ph. D., Assoc. Prof. Foods and Nutr.

**Starah Brier, M. S., Instr. (Res.) Textiles, Clothing, and Related Arts.

*Ruth Brotten, M. S., Instr. Institution Admin.

†Jean Carstensen, M. S., Instr. (Res.) Foods and Nutr.

†Jean Carstensen, M. S., Instr. (Res.) Foods

†Jean Carstensen, M. S., Instr. (Res.) Foods and Nutr.

*†Dena C. Cederquist, Ph. D., Assoc. Prof. Foods and Nutr.

*§Mrs. Margaret M. Childs, M. S., Instr. Institution Admin.

*Eleanor R. Clauss, M. A., Instr. Textiles, Clothing, and Related Arts.

*Mrs. Evelyn S. Drake, M. B. A., Assoc. Prof. Institution Admin.

†Marjorie Eastman, M. A., Clothing Spec.

*§Esther Everett, M. A., Asst. Prof. Home Mgt. and Child Development.

†Mrs. Margaret S. Foster, M. A., Spec. in House Furnishings.

Home Economics-Continued

me Economics—Continued

*Jean Foulkrod, M. S., Instr. Home Mgt. and Child Development.

*Mrs. Mary A. Frang, M. S., Instr. Foods and Nutr.

*Mrs. Kathryn Gardner, M. S., Asst. Prof. Institution Admin.

*Betty J. Garlick, M. S., Instr. Home Mgt. and Child Development.

*Mary L. Gephart, M. S., Asst. Prof. Textiles, Clothing, and Related Arts.

*Beatrice V. Grant, M. A., Prof. Foods and Nutr.

*Beatrice V. Grant, M. A., Froj. Foots and Nutr.

‡Lola B. Green, M. A., Clothing Spec.
*Dorothy M. Greey, M. S., Asst. Prof. Home Mgt. and Child Development.

*Barbara Hammill, M. S., Instr. Textiles, Clothing, and Related Arts.
*Mrs. Margaret C. Hearn, M. S., Asst. Prof. Textiles, Clothing, and Related Arts.
*Anna M. Heiss, M. S., Instr. Foods and Nutr.

Nutr

Nutr.

Roberta R. Hershey, M. S., Nutr. Spec.

Marian S. Hillhouse, M. A., Assoc. Prof.

Textites, Clothing, and Related Arts.

Ruth L. Ingalls, M. S., Instr. (Res.) Foods
and Nutr.

Lois E. Jackson, M. S., Instr. (Res.) Foods
and Nutr.

Spearl Jackson, M. S., Asst. Prof. Institution Admin.

Mildred L. Jones, M. S., Assoc. Prof. Institution Admin. and Myr. Women's Dormitories.

tories.
†Mrs. Annanel C. Jubb, M. S., Instr. (Res.)
Foods and Nutr.
†Anna L. Kelly, M. S., Asst. Prof. (Res.)
Foods and Nutr.
*Toucille Ketchum, M. S., Home Mgt. Spec.
*Faye Kinder, M. S., Asst. Prof. Foods and
Nutr.

† Gladys E. Knight, M. A., Asst. Prof. (Res.)
and Ext. Spec. in Institution Admin.
*Marjorie M. Knoll, M. A., Instr. Home
Myt. and Child Development.
*H. Maxine Krauter, M. S., Instr. Institu-

tion Admin.
*Jeanette A. Lee, M. S., Asst. to the Dean.
*Mary Lewis, M. S., Assoc. Prof. Foods and Nutr.

Nutr.

*Margaret A. MacNaughton, M. S., Instr.

*Home Mgt. and Child Development.

*Jean Mann, M. S., Instr. Textiles, Clothing,
and Related Arts.

*SEVelyn A. Mansheld, M. A., Assoc. Prof.
Textiles, Clothing, and Related Arts.

†Ruth Marin, M. S., Instr. (Res.) Foods and
Nutr.

‡Jessie E. Marion, M. A., Home Furnishing

*Josephine Martin, M. S., Instr. Textiles, Clothing, and Related Arts. Clovia C. Meyer, M. S., Home Mgt. Spec. *Elaine Mishler, M. S., Instr. Institution

Admin.
*Mary L. Morr, M. S., Asst. Prof. Foods and Nutr

*Gertrude G. Mueller, M. A., Asst. Prof. In-

*Gertrude G. Mueller, M. A., Asst. Prof. Institution Admin.

*Shirley E. Newsom, M. S., Asst. Prof. Home Mgt. and Child Development.

*Marion A. Niederpruem, M. A., Asst. Prof. Textiles, Clothing, and Related Arts.

*Esther Noland, B. S., Asst. in Home Mgt. and Child Development.

*Betty L. Norris, B. S., Asst. in Home Mgt. and Child Development.

*Gertrude Nygren, M. A., Instr. Textiles, Clothing, and Related Arts.

*Elizabeth E. Page, M. S., Instr. Home Mgt. and Child Development.

*Pauline C. Paul, Ph. D., Assoc. Prof. (Res.)

*†Pauline C. Paul, Ph. D., Assoc. Prof. (Res.)
Foods and Nutr.
;Ruth J. Peck, M. A., Home Furnishing
Spec.
*Owana Post, B. A., Asst. in Institution

*Owana P

‡Florence G. Rann, M. A., Clothing Spec.

Home Economics-Continued

ome Economics—Continued

†Mrs. Mary L. Rosencranz, M. A., Instr.
(Res.) Teatiles, Clothing, and Related
Arts.

*Elinor B. Roth, M. A., Instr. Teatiles,
Clothing, and Related Arts.

*Doris Smith, M. S., Instr. Foods and Nutr.
†Mrs. Alice C. Thorpe, B. S., Instr. (Res.)
Home Mgt. and Child Development.

*Calla Van Syckle, Ph. D., Visiting Prof.
Home Mgt. and Child Development.

*Margaret A. Wallace, M. S., Instr. Foods
and Nutr.

*Margaret Å. Wallace, M. S., Instr. Foods and Nutr.
Dorothy C. Washburn, M. A., Asst. Prof. Textiles, Clothing, and Related Arts.

*Mary C. Whitlock, M. A., Assoc. Prof. (Visiting) Textiles, Clothing, and Related Arts.

*Helen L. Widick, M. S., Asst. Prof. Institution Admin.

*Betty R. Yabsley, B. S., Asst. Instr. Admin.

*Evelyn A. Zwemer, M. S., Asst. Prof. Home Mgt. and Child Development.

Horticulture:

Horticulture:

*†H. B. Tukey, Ph. D., Prof. and Head of Dept.

†W. W. Aldrich, Ph. D., Assoc. Prof.

†C. L. Bedford, Ph. D., Assoc. Prof.

†H. A. Cardinell, B. S., Assoc. Prof.

†R. F. Carlson, M. S., Asst. Prof.

†R. L. Carolus, Ph. D., Prof,

†H. P. Gaston, M. S., Asst. Prof.

*C. L. Hamner, Ph. D., Assoc. Prof.

*W. J. Haney, Ph. D., Asst. Prof.

‡H. D. Hootman, Hort. Spec.

†‡A. L. Isbit, Ph. D., Asst. Prof. and Hort.

Spec.

†Stanley Johnston, M. S., Prof.

†‡A. L. Isbit, Ph. D., Asst. Proj. and Holl.

Spec.
†Stanley Johnston, M. S., Prof.
*†A. L. Kenworthy, Ph. D., Assoc. Prof.
*G. M. Kessler, M. S., Instr.
†J. C. Kremer, B. S., Flor. Spec.
‡C. A. Krone, B. S., Flor. Spec.
‡C. A. Langer, M. S., Hort. Spec.
†Ardith L. Lickfeldt, B. S., Instr. Res.
†E. H. Lucas, D. Agr., Prof.
†J. E. Moulton, Ph. D., Asst. Prof.
†J. E. Moulton, Ph. D., Asst. Prof.
‡A. N. Reath, B. S., Instr.
*W. F. Robertson, M. S., Assc. Prof.
†J. W. F. Robertson, M. S., Assc. Prof.
†J. W. Rose, M. S., Hort. Spec.
*†C. E. Russell, M. S., Assoc. Prof.
†Walter Toenjes, M. S., Asst. Prof.
*†D. P. Watson, Ph. D., Asst. Prof.
*†C. E. Wildon, M. S., Assc. Prof.
*†S. H. Wittwer, Ph. D., Assoc. Prof.

Information Services:

*†‡W. L. Treaster, B. S., Prof. and Head of Dept.

*Barbara Cahoon, Artist. †Mrs. Ruth B. Christian, B. S., Information Asst.

*Richard Dandeneau, B. S., Asst. News Editor.

†‡J. G. Duncan, M. S., Bul. Editor. *Edward Erickson, B. S., Asst. Sports Edi-

†J. W. Fitzgerald, B. S., Asst. Sports Eat-†J. W. Fitzgerald, B. S., Information Asst. †‡N. W. Kunkel, M. A., Bul. Distribution Suppr.

*John Leonard, B. S., Asst. News Editor.

‡W. M. Nelson, B. S., Visual Aid Spec.

‡E. C. Richardson, B. S., Ext. Editor.

*A. L. Smith, M. S., News Editor.

*F. W. Stabley, B. A., Sports Editor.

Landscape Architecture and Urban Planning:

*H. W. Lautner, B. S., M. C. P., Prof. and Head of Dept. *Milton Baron, B. S., M. L. A., Asst. Prof. Landse. Arch. *C. W. Barr, M. S., Asst. Prof. Urban Plan-

*T. A. Barton, B. S., Instr. Landsc. Arch.

Landscape Architecture and Urban Planning— Continued

*M. G. Boylan, B. S., M. L. A., M. C. P.,
Asst. Prof. Urban Planning.

‡J. T. Cox, B. S., Landsc. Ext. Spec.
*C. S. Gerlach, B. L. A., M. S., Asst. Prof.
Landsc. Arch.
*D. N. Glick, B. S., M. L. A., Asst. Prof.
Landsc. Arch.
*W. A. Malone, B. S., M. C. P., Asst. Prof.
Urban Planning.
*C. E. Morris, B. S., Instr. Landsc. Arch.

Poultry Husbandry:

Poultry Husbandry:

*†C. G. Card, B. S., Prof. and Head of Dept.

‡W. A. Ahe, M. S., Asst. Prof. Ext.

*S. M. Armstrong, M. S., Tech.

*†F. N. Barrett, M. S., Assoc. Prof.

†J. A. Davidson, B. S., Assoc. Prof.

†L. E. Dawson, Ph. D., Asst. Prof.

†A. C. Groschke, Ph. D., Asst. Prof.

†E. W. Henderson, Ph. D., Asst. Prof.

†R. E. Howell, B. S., Tech.

‡J. M. Moore, M. S., Assoc. Prof. Ext.

*C. C. Sheppard, M. S., Instr. Poultry Husb.

‡H. C. Zindel, M. S., Assoc. Prof. Ext.

Radio:

*‡R. J. Coleman, B. A., B. M., Head of Dept. and Radio Spec.

*R. W. Tenny, B. S., Dir. *M. L. Bailey, M. S., Asst. Prof. Agr. Engin., Short Courses (Farm Equip. Service and

*Harold Davidson, Instr. Hort., Short Courses (Nursery and Landsc. Mgt.). *M. H. Erdmann, M. S., Instr., Short Courses

*M. H. Erdmann, M. S., Instr., Short Courses (Gen. Agr.).

*William Halliday, Instr. Hort., Short Courses (Commercial Flor.).

*K. K. Heideman, M. S., Asst. Prof., Short Courses (Gen. Agr.).

*V. C. Larson, M. S., Instr., Short Courses (Gen. Agr.).

*J. E. Mausteller, B. S., Instr. For., Short Courses (For. Pract.).

*D. C. Miller, M. S., Asst. Prof., Short Courses (Gen. Agr.).

*A. E. Oliver, M. S., Asst. Prof., Short Courses (For. May.).

*D. H. Shepard, M. S., Asst. Prof., Short Courses (For. May.).

Sociology and Anthropology:

Sociology and Anthropology:

*†C. P. Loomis, Ph. D., Prof. and Head of Dept.

*†J. A. Beegle, Ph. D., Assoc. Prof. Sociol.

*Wilbur Brookover, Ph. D., Assoc. Prof. Sociol. and Anthropology.

*W. H. Form, Ph. D., Assoc. Prof. Sociol. and Anthropology.

*†D. L. Gibson, Ph. D., Assoc. Prof. Sociol. *†C. R. Hoffer, Ph. D., Prof. Sociol. *†P. A. Miller, M. A., Asst. Prof. Rural Sociol. and Anthropology.

*C. E. Sower, Ph. D., Assoc. Prof. Sociol. †David Steinicke, M. A., Rural Sociol. and Anthropology.

*†J. F. Thaden, Ph. D., Assoc. Prof. Sociol. and Anthropology.

*†J. F. Thaden, Ph. D., Assoc. Prof. Sociol. and Anthropology.

*K. E. R. Tiedke, M. A., Asst. Prof. Sociol. and Anthropology.

*†John Useem, Ph. D., Prof. Sociol. and Anthropology.

*†John Useem, Ph. D., Prof. Sociol. and Anthropology.

Soil Science:

*†L. M. Turk, Ph. D., Prof. and Head of Dept.
†G. J. Bouyoucos, Ph. D., Prof.
†R. L. Cook, Ph. D., Prof.
†G. A. Crabb, Jr., B. S., Asst. Prof. (Coop. SCS).

†J. F. Davis, Ph. D., Assoc. Prof.

Soil Science-Continued

Soil Science—Continued
†Clarence Engberg, M. S., Res. Assoc. in Soil
Conserv. (Coop. U. S. D. A.).
*†A. E. Erickson, Ph. D., Asst. Prof.
†R. M. Gillesple, B. S., Foreman, Muck Farm.
†P. M. Harmer, Ph. D., Prof.
*†Kirkpatrick Lawton, Ph. D., Assoc. Prof.
†E. D. Longnecker, B. S., Assoc. Prof.
†J. G. Lynd, Ph. D., Asst. Prof.
†J. S. Robertson, M. S., Asst. Prof.
†J. S. Robertson, M. S., Asst. Prof.
†P. J. Rood, M. A., Asst. Prof.
†P. J. Rood, M. A., Asst. Prof.
†A. G. Weidemann, M. S., Asst. Prof.
*†A. G. Weidemann, M. S., Asst. Prof.
**N. A. Willits, M. S., Instr.
†A. R. Wolfanger, Ph. D., Assoc. Prof.
**N. A. Willits, M. S., Instr.
†A. R. Wolfanger, Ph. D., Prof.
Veterinary Medicine:

Veterinary Medicine:

†C. S. Bryan, D. V. M., Ph. D., Dean of School, Prof. Surg. and Med.
*B. V. Alfredson, D. V. M., M. S., Prof. and Head Dept. of Physiol. and Pharmacol.
†G. Anderson, B. S., Tech. in Bact. and Public Health †G. Anderson, B. S., Tech. in Bact. and Public Health. †Betty Baltzer, B. S., Instr. Bact. and Public

Health. *R. Barner, D. V. M., M. S., Assoc. Prof. An.

Path.

*R. C. Belding, D. V. M., Asst. Prof. Bact. and Public Health. †Rachel Bethea, B. S., Instr. Bact. and Pub-

lic Health.
*C. E. Black, M. D., M. S., Lect. in Clinical

*F. L. Bowman, M. S., Instr. Anat. *†W. O. Brinker, D. V. M., M. S., Prof. Surg.

†W. O. Brinker, D. V. M., M. S., Assoc. Prof. and Med.

*C. F. Cairy, D. V. M., M. S., Assoc. Prof. Physiol. and Pharmacol.

*Mary L. Calhoun, D. V. M., Ph. D., Prof. and Head Dept. of Anat.

*T. T. Chaddock, M. S., D. V. M., Lect. in An. Path.

*†E. S. Churchill, M. S., Instr. Bact. and Public Health.

Public Health.

*C. F. Clark, D. V. M., Prof. and Head Dept. of Surg. and Med., Dir. Large An. Clinic.

*W. D. Collings, Ph. D., Assoc. Prof. Physiol. and Pharmacol.

*H. E. Cope, B. S., M. D., Lect. in Clinical Dept.

Path

D. Cummings, Ph. D., M. D., Lect. in Bact.

*†C. H. Cunningham, M. S., D. V. M., Assoc. Prof. (Res.) Bact. and Public Health. *†R. B. Czarnecki, Ph. D., Instr. Bact. and

Public Health.
*I. L. Dahljeim, B. S., Tech. Bast. and Pub-

lic Health.

*I. P. Delappe, Ph. D., Asst. Prof. Bact. and Public Health. D. Devereux, Ph. D., Prof. Bact. and

Public Health. R. Drury, D. V. M., Asst. Prof. Surg.

*†H. W. Path. *F. E. Dunne, D. V. M., Asst. Prof. An.

*Fath.

*F. E. Eads, D. V. M., M. S., Asst. Prof. Surg. and Med.

†F. W. Fablan, Ph. D., Prof. (Res.) Bact. and Public Health.

*L. Fuller, B. S., Tech. in Bact. and Public Health.

Health.

*†M. E. Gray, M. S., Instr. An. Path.

*†P. A. Hawkins, M. A., D. V. M., Prof. Bact.
and Public Health.

*†Dorothy J. Hitchcock, M. S., Instr. Bact. and Public Health. †I. F. Huddleson, D. V. M., Ph. D., Prof.

(Res.) Bact.
†I. C. Johnson, B. S., Tech. Bact.
*T. N. Johnson, B. S., Instr. Physiol. and Pharmacol.

Veterinary Medicine—Continued

*R. Johnston, M. S., D. V. M., Asst. Prof. Physiol. and Pharmacol. *‡B. J. Killham, D. V. M., Assoc. Prof. (Ext.)

An. Path.

*M. B. Kurtz, D. V. M., M. S., Lect. in Bact.

*L. H. LaFond, D. V. M., Lect. Surg. and

*R. F. Langham, Ph. D., D. V. M., Assoc. Prof. An. Path.
*C. Lathwell, B. S., Tech. in Bact. and Pub-

lic Health. nita Leavitt,

M. S., Instr. Bact. and *Anita Public Health.

*D. M. LeDuc, M. D., M. S., Lect. Surg. and

*D. M. LeDuc, M. D., M. S., Eect. Sury. und Med. *W. D. Lindquist, Ph. D., Asst. Prof. Bact. and Public Health. *†W. N. Mack, Ph. D., Asst. Prof. Bact. and Public Health. *†W. L., Mallmann, Ph. D., Prof. Bact. and

Public Health.

*M. Mayer, B. S., Tech. in Bact. and Public

Health

Heatth.

*†Joseph Meites, Ph. D., Asst. Prof. Physiol.
and Pharmacol.

*D. B. Meyer, D. V. M., M. S., Lect. in Bact.
*Doris Miller, B. S., Tech. Bact. and Public Health.

*G. R. Moore, D. V. M., M. S., Prof. Surg.
and Med.
*I. New Tech. in Bact. and Bublic Health.

and Med.
*L. Neu, Tech. in Bact. and Public Health.
*J. P. Newman, D. V. M., M. S., Asst. Prof.
Bact. and Public Health.
*Frank Peabody, M. S., Instr. Bact. and
Public Health.

\$G. W. Reed, D. V. M., Asst. Prof. (Ext.)
An. Path.

*†E. P. Reineke, Ph. D., Prof. Physiol. and
Physical Research.

Pharmacol. **Rurmacou.**
*Marvis Richardson, Ph. D., Asst. Prof.
(Res.) Bact. and Public Health.

*W. F. Riley, B. V. S., D. V. M., Asst. Prof.
Surg. and Med.

*R. A. Runnells, D. V. M., M. S., Prof. and

*A. Ruillens, D. v. M., M. S., Froj. and Head An. Path.

*A. H. Safanie, D. V. M., M. S., Instr. Anat.

*E. K. Sales, D. V. M., Prof. Surg. and Med.,

Dir. Small An. Clinic.

†R. Evelyn Sanders, Ph. D., Asst. Prof. Bact. and Public Health (Res.).
*R. G. Schirmer, D. V. M., Instr. Surg. and Med. *L. B. Sholl, M. S., D. V. M., Assoc. Prof.

*J. F. Smithcors, M. S., D. V. M., Assoc.

Prof. Anat. *M. Spring, B. S., Tech. in Bact. and Public

Health

*†H. J. Stafseth, D. V. M., Ph. D., Prof. and Head Bact. and Public Health. *J. R. Stiefel, M. S., Asst. Prof. Physiol. and Pharmacol.

Pharmacol.

*†J. J. Stockton, D. V. M., Asst. Prof. Bact.
and Public Health.

†Frank Thorp, Jr., D. V. M., Ph. D., Prof.
(Res.) An. Path.

*C. W. Titkemeyer, D. V. M., Instr. Anat.
†Mrs. Mary J. Trustdorf, M. S., Instr. (Res.)
Bact. and Public Health.

† Warner, M. S., Instr. Bact. and Public

†J. Warner, M. S., Instr. Bact. and Public Health. †H. Webster, D. V. M., Instr. (Res.) An.

PathWheeler, D. V. M., Instr. Surg. and

*E. A. White, D. V. M., Asst. Prof. Surg. and Med.

*S. C. Whitlock, D. V. M., M. D., Lect. in Anat

†J. A. Williams, B. S., D. V. M., Instr. (Res.)

and Med.

Zoology:

*†H. R. Hunt, Ph. D., Prof. and Head of Dept.

*†R. C. Ball, Ph. D., Assoc. Prof. Zool.

*J. C. Braddock, Ph. D., Assoc. Prof. Zool.

*R. A. Fennell, Ph. D., Prof. Zool.

†D. W. Hayne, Ph. D., Asst. Prof. Zool.

*R. H. Manville, Ph. D., Asst. Prof. Zool.

*R. H. Manville, Ph. D., Assoc. Prof. Zool.

*G. A. Petrides, Ph. D., Prof. Zool.

*M. D. Pirnie, Ph. D., Prof. Zool.

*T. W. Porter, Ph. D., Instr. Zool.

*J. W. Stack, M. S., Prof. Zool., Dir. Coll.

Museum. Museum.

*K. A. Stiles, Ph. D., Prof. Zool. *†P. I. Tack, Ph. D., Assoc. Prof. Zool. *G. J. Wallace, Ph. D., Assoc. Prof. Zool.

Miscellaneous:

*†W. D. Baten, Ph. D., Prof. Math. and Expt. Sta. Stat. *E. E. Kinney, Supt. of Bldgs. and Utilities.

Miscellaneous-Continued

†G. C. Luehrs, M. A., Budget Asst. †J. E. Towne, M. A., B. L. S., Libr.

Substations:

Dunbar Forestry Expt. Sta., P. O., Sault Ste. Marie— M. W. Day, B. S., Supt. Graham Hort. Expt. Sta., R. F. D. 5, Grand

Rapids-

Walter Toenjes, M. S., Supt. Lake City Expt. Sta., P. O., Lake City— A. M. Berridge, B. S., Supt. South Haven Hort. Expt. Sta., P. O., South Haven-

Stanley Johnston, M. S., Supt. Upper Peninsula Expt. Sta., P. O., Chatham

R. E. Horwood, M. S., Supt. W. K. Kellogg Sta., P. O., Augusta— C. M. McCrary, B. S., Supt.

MINNESOTA

Department of Agriculture (College of Agriculture, Forestry, and Home Economics, the Agricultural Experiment Station, and the Division of Agricultural Extension) of the University of Minnesota, University Farm, St. Paul 1

*College faculty. †Station staff. ‡Extension staff.

*†‡J. L. Morrill, B. A., LL. D., President of University (P. O., Minneapolis).

*†‡C. H. Bailey, Ph. D., Dir. of Agr.

*†Harold Macy, Ph. D., Dir. of Sta.

‡P. E. Miller, M. Agr., Dir. of Agr. Ext.

*†Henry Schmitz, Ph. D., Dean Coll. of Agr., For., Home Econ. and Vet. Med.

*†T. H. Fenske, M. S., Assoc. Dir. Agr. Admin.

*†W. T. Middlebrook, B. A., M. C. S., Vice Pres. Univ., Treas. Sta. (P. O., Minneapolis).

Agronomy and Plant Genetics:

Agronomy and Plant Genetics:

*†H. K. Hayes, D. Sc., Prof. Agron. and Plant Genetics; Chief of Div.

*M. L. Armour, B. S., Est. Asst. Prof. Agron.;

*Agron. (U. S. D. A.).

*†C. R. Borgeson, M. S., Asst. Prof. and Asst. Agron.; Plant Geneticist.

*†C. R. Burnham, Ph. D., Prof. Plant Geneticist.

*†C. R. Burnham, Ph. D., Prof. Plant Geneticist.

†TR. F. Crim, B. S., Assoc. and Ext. Assoc. Prof. Agron.

*†J. O. Culbertson, Ph. D., Prof. Agron.; Agron. (U. S. D. A.).

*†R. S. Dunham, M. S., Prof. Agron.; Agron.

*†J. W. Lambert, Ph. D., Assoc. Prof. and Assoc. Plant Geneticist.

*†E. I. Pinnell, Ph. D., Asst. Prof. and Asst. Plant Geneticist.

*†E. H. Rinke, Ph. D., Prof. Plant Genetics; Plant Geneticist.

*†E. R. Robinson, Ph. D., Asst. Prof. and Asst. Agron.

*†A. R. Schmid. Ph. D., Assoc. Prof. and

*†A. G. Robinson, A. D., Assoc. Prof. Assoc. Agron.

*†A. R. Schmid, Ph. D., Assoc. Prof. Assoc. Agron. and Plant Geneticist.

*†H. L. Thomas, Ph. D., Assoc. Prof. Assoc. Agron. and Plant Geneticist. Prof. and

and

Animal Husbandry:

*†E. F. Ferrin, M. Agr., Prof. An. Husb.; Chief of Div. *†P. A. Anderson, B. S., Assoc. Prof. and

Assoc. An. Husb.

†R. M. Anderson, Ph. D., Asst. Prof. and
Asst. An. Husb.

*†W. J. Aunan, M. S., Instr. and Asst. in An. Husb.

*†J. N. Cummings, Ph. D., Assoc. Prof. and Assoc. An. Husb. *†L. E. Hanson, Ph. D., Prof. An Husb.; An.

Husb.

*†A. L. Harvey, Ph. D., Prof. An Husb.; An. Huso. ‡W. E. Morris, M. S., Ext. Assoc. Prof. An. Huso. *†L. M. Winters, Ph. D., Prof. An. Genetics;

An. Geneticist.

Animal Husbandry-Continued

‡H. G. Zavoral, B. S., Ext. Assoc. Prof. An. Husb.

Biochemistry (Agr.):

*†W. F. Geddes, Ph. D., Prof. Agr. Biochem.; Chief of Div.

*†C. H. Bailey, Ph. D., Prof. Agr. Biochem; Agr. Biochem.

*†P. D. Boyer, Ph. D., Assoc. Prof. and Assoc. Agr. Biochem.

*†D. R. Briggs, Ph. D., Prof. Agr. Biochem.; Agr. Biochem.

*†L. S. Cuendet, M. S., Instr. and Asst. in Agr. Biochem.

*†L. S. Cuendet, M. S., Instr. and Asst. in Agr. Biochem.

*†Robert Jenness, Ph. D., Assoc. Prof. and Assoc. Agr. Biochem.

*†I. E. Liener, Ph. D., Asst. Prof. and Asst. Agr. Biochem.

*†W. O. Lundberg, Ph. D., Prof. Agr. Biochem.; Agr. Biochem.

*†W. M. Sandstrom, Ph. D., Prof. Agr. Biochem.; Agr. Biochem.

*†M. O. Schultze, Ph. D., Prof. Agr. Biochem.; Agr. Biochem.

*†Fred Smith, Ph. D., D. Sc., Prof. Agr. Biochem.; Agr. Biochem.

Botany-See Plant Pathology,

Dairy Husbandry:

*†J. B. Fitch, M. S., Prof. Dairy Husb.; Chief of Div. *†W. B. Combs, M. A., Prof. Dairy Husb.; Dairy Husb. *†S. T. Coulter, Ph. D., Prof. Dairy Husb.;

**Tw. D. Dairy Husb.;

Dairy Husb.

*†S. T. Coulter, Ph. D., Prof. Dairy Husb.;

Dairy Husb.

*†T. W. Gullickson, Ph. D., Prof. Dairy
Husb.;

*†M. C. Hervey, Ph. D., Assoc. Prof. and
Assoc. Dairy Husb.

*†J. J. Jezeski, Ph. D., Asst. Prof. and Asst.
Dairy Husb.

‡R. D. Leighton, B. S., Ewt. Asst. Prof.
Dairying.

*†Harold Macy, Ph. D., Prof. Dairy Bact.;
Dairy Bact.

*†J. C. Olson, Ph. D., Assoc. Prof. and Assoc.
Dairy Bact.

Dairy Husbandry-Continued

*†W. E. Petersen, Ph. D., Prof. Dairy Husb.; Dairy Husb. ‡H. R. Searles, B. S., Ext. Assoc. Prof.

Dairying.

*†E. L. Thomas, M. S., Instr. and Asst. in
Dairy Husb.

‡Ralph Wayne, M. S., Ext. Asst. Prof. Dairying.

Economics (Agr.):

*†O. B. Jesness, Ph. D., Prof. Agr. Econ.; Chief of Div. ‡Harvey Bjerke, Asst. Agr. Ext. Spec. in

Farm Mgt.

†S. B. Cleland, M. S., Ext. Assoc. Prof. Agr. Econ. in Farm Mgt. *†R. W. Cox, Ph. D., Assoc. Prof. and Assoc.

Agr. Econ.

†W. H. Dankers, Ph. D., Ext. Assoc. Prof.
Agr. Econ. in Mktg.

†A. A. Dowell, Ph. D., Prof. Agr. Econ.;

*†A. A. Dowell, Fil. B., Froj. Lyr. Boom, Agr. Econ., †D. C. Dvoracek, M. S., Ext. Assoc. Prof. Agr. Econ. in Mkty.

*†S. A. Engene, Ph. D., Assoc. Prof. and Assoc. Agr. Econ.

‡H. P. Hanson, M. S., Ext. Asst. Prof. Field

Studies.

IM. K. Hinds, B. S., Instr., Ext. Agr. Econ. in Mktg.

‡D. S. Johnson, B. S., Ext. Spec. in Farm

*†E. F. Koller, Ph. D., Prof. Agr. Econ.;

*P. M. Lowe, M. A., Instr. Agr. Econ.

*†W. E. McDaniel, M. S., Instr. and Asst. in

*TW. E. McDanlel, M. S., Instr. and Asst. in Agr. Econ.

‡J. B. McNulty, M. A., Ext. Asst. Prof. Agr. Econ. in Farm Mgt.

†T. R. Nodland, Ph. D., Asst. Prof. and Asst. Agr. Econ.

†G. Apond, Ph. D., Prof. Agr. Econ.; Agr.

*†G. A. Pond, r... Econ. ‡George Wisdom, M. S., In Spec. in Livestock Mktg. Instr. and Ext.

Editorial--See Publications and Journalism (Rural)

Education (Agr.):

*M. J. Peterson, Ph. D., Assoc. Prof. and Chair., Agr. Ed. *Harry Kitts, Ph. D., Asst. Prof. Agr. Ed.

Engineering (Agr.):

*†A. J. Schwantes, M. S., A. E., Prof. Agr. Engin.; Chief of Div. *†E. R. Allred, M. S., Assoc. Prof. and Assoc.

Agr. Engin. *†A. H. Burman, B. S., Instr. and Asst. in

*†C. H. Christopherson, M. S., Assoc. Prof. and Assoc. Agr. Engin. *†H. A. Cloud, B. A. E., Instr. and Asst. in

*†J. G. Dent, Instr. and Asst. in Agr. Engin.

††A. M. Flikke, M. S., Asst. Prof. and Asst.
Agr. Engin.

*†Andrew Hustrulid, Ph. D., Prof. Agr. Engin.; Agr. Engin.
*†V. H. Johnson, B. A. E., Instr. and Asst.

in Agr. Engin.
*†C. L. Larson, M. S., Instr. and Asst. in

*†P. W. Manson, M. S., Prof. Agr. Engin.; Agr. Engin. *†C. K. Otis, M. S., Prof. Agr. Engin.; Agr.

Engin.
I. Prickett, B. A., Assoc. Prof. Ext. Spec. Farm Safety. ‡D. M. Ryan, B. C. E., Assoc. Prof., Ext.

Engin

*†John Strait, M. S., Assoc. Prof. and Assoc. Agr. Engin. *†J. B. Torrance, B. S., Asst. Prof. and Asst. Agr. Engin.

Entomology and Economic Zoology:

*†C. E. Mickel, Ph. D., Prof. Ent.; Ent., Chief of Div. *T. L. Aamodt, B. S., Asst. Prof. Ent. (State

*†J. R. Beer, Ph. D., Asst. Prof. and Asst. Econ. Zool.

*†A. L. Burroughs, Ph. D., Asst. Prof. and Asst. Ent.

*†E. F. Cook, Ph. D., Instr. and Asst. in Ent.

*†L. K. Cutkomp, Ph. D., Asst. Prof. and Asst. Ent.

Asst. Ent.

*†A. A. Granovsky, Ph. D., Prof. Ent.; Ent.

*†M. H. Haydak, Ph. D., Assoc. Prof. and
Assoc. Apiculturist.

*†A. C. Hodson, Ph. D., Prof., Ent.; Ent.

*†W. H. Marshall, Ph. D., Prof. Econ. Zool.;
Econ. Zool.

†H. L. Parten, B. S., Ext. Instr. Ent.

*†A. G. Richards, Ph. D., Prof. Ent.; Ent.

*L. L. Smith, Ph. D., Assoc. Prof. Econ. Zool. Zool

Extension (Agr.):

ADMINISTRATION:

†P. E. Miller, M. Agr., Prof., Dir. †Skuli Rutford, B. S., Assoc. Prof., Asst. Dir.

‡R. M. Douglass, B. S., Assoc. Prof., State Leader Program Planning and Coordina-

‡J. F. Kuehn, Fiscal Agt.

COUNTY AGENT WORK:

†C. I. McNelly, B. S., Assoc. Prof., Dist. Supvr. County Agt. Work.
†A. E. Engebretson, M. S., Assoc. Prof., Dist. Supvr. County Agt. Work.
†W. A. Peters, B. S., Asst. Prof., Dist. Supvr. County Agt. Work.

4-H CLUB WORK:

 L. L. Harkness, B. S., Assoc. Prof., State Leader 4-H Club Work.
 Kathleen S. Flom, B. S., Asst. Prof., Asst. State Leader 4-H Club Work Rural Youth

Youth.
H. A. Pflughoeft, M. S., Asst. Prof., Dist.
Supvr. 4-H Club Work.

B. V. Beadle, B. S., Asst. Prof., Dist. Supvr.
4-H Club Work.

O. T. Magnuson, B. S., Asst. Prof., Dist.
Supvr. 4-H Club Work.

Mary R. Anderson, B. S., Instr., State Club

Agt. ‡Carol D. Sanstead, B. S., Instr., State

Club Agt. ‡G. P. Malum, B. S., Instr., State Club Agt.

HOME DEMONSTRATION WORK:

**Thorothy Simmons, M. S., Assoc. Prof., State Leader Ext. Home Program.

**Evelyn R. Morrow, B. S., Asst. Prof., Dist. Supvr. Home Ext. Work.

†Amy W. Newcomb, B. S., Asst. Prof., Dist. Supvr. Home Ext. Work.

†Doris R. Wyman, B. S., Asst. Prof., Dist. Supvr. Home Ext. Work.

Forestry:

*†F. H. Kaufert, Ph. D., Prof. For. and Dir.,

*†J. H. Allison, M. F., Prof. For.; For. †P. O. Anderson, B. S., Ext. Asst. Prof. For. †R. M. Brown, M. F., Assoc. Prof. and Assoc. For.

*†D. P. Duncan, M. S., Instr. and Asst. in For. *†O. F. Hall, M. F., Instr. and Asst. in For.

*†H. L. Hansen, Ph. D., Assoc. Prof. and Assoc. For.

*†R. L. Hossfeld, Ph. D. ,Assoc. Prof. and Assoc. For

*†L. W. Rees, Ph. D., Assoc. Prof. and Assoc. For.

Forestry-Continued

*†Thorvald Schantz-Hansen, Ph. D., Prof. For.; For., Dir. For. Expt. Sta. (P. O., Cloquet).

*†Henry Schmitz, Ph. D., Prof. For.; For. *†A. E. Schneider, M. A., Assoc. Prof. and Assoc. For.

* IM. E. Smith, B. S., Instr. and Ext. Asst.

For. *†S. H. Spurr, Ph. D., Assoc. Prof. and Assoc.

Home Economics:

Econ. and Dir. of School.

*Mrs. Clara B. Arny, M. A., Prof. Home

Econ. Ed.

*†Alice Biester, M. A., Prof. Home Econ.; *Dorothy E. Bonnell, B. S., Instr. Home

Econ. *Cynthia C. Bookbinder, B. I. D., Instr.

*Cynthia C. Bookbinder, D. I. L.,
Home Econ.

Grace D. Brill, M. S., Ext. Asst. Prof. Nutr.
*Gertrude Esteros, M. A., Asst. Prof. Home

*Roxanna R. Ford, Ph. D., Assoc. Prof. Home Econ. Ed. *Ethel R. Gorham, A. M., Asst. Prof. Tex-tiles and Clothing. *Elaine Hermanson, B. S., Instr. Home

*Naurine R. Higgins, B. S., Instr. Home Econ.

‡Inez M. Hobart, M. A., Ext. Asst. Prof. Nutr.

*Kathleen M. Jeary, M. A., Asst. Prof. Home Econ.

Econ.
*Evelyn M. Jones, M. S., Instr. Home Econ.
*Ann M. Julifs, M. S., Instr. Home Econ.
*Hedda B. Kafka, M. A., Asst. Prof. Home Econ. Ed.
*Jane M. Leichsenring, Ph. D., Prof. Home Econ.; Home Econ.
*Helen A. Ludwig, M. A., Asst. Prof. Home Econ.

†Helen H. Matheis, M. A., Ext. Asst. Prof Home Furnishing Spec. *Grace E. McMahon, M. B. A., Instr. Home

Econ.

Econ.

†Mary M. Miller, M. S., Ext. Asst. Prof. Home Mgt.

*Juliette Myren, M. S., Instr. Home Econ.

†Isabel T. Noble, Ph. D., Prof. Home Econ.

*Mavis C. Nymon, M. S., Instr. Home Econ.

*Neva M. Petersen, M. S., Instr. Home Econ.

*Tethel L. Phelps, M. S., Prof. Home Econ.

*Home Econ.

*Beth B. Quist, B. S., Instr. Home Econ.

*Ella J. Rose, Ph. D., Prof. Home Econ. Ed.

‡Ina B. Rowe, M. S., Ext. Asst. Prof. Nutr.

‡Athelene H. Scheid, B. S., Ext. Asst. Prof. Olothing Spec.

*Miriam G. Scholl, M. A., Assoc. Prof. Institutional Mgt.

*Sue M. Theis, M. S., Instr. Home Econ.

Elvira Thomson, M. S., Instr. Home Econ.

*Elvira Thomson, M. S., Instr. Home Econ.

Ed.

**Mys. Esthory V. Thompall M. S. Acad. Page.

Ed

*Mrs. Esther Y. Trammell, M. S., Asst. Prof.

Home Econ. Eves E. Whitfield, M. A., Ext. Asst. Prof. Clothing.

Horticulture:

*†W. H. Alderman, B. S., Prof. Hort.; Hort., Chief of Div., Supt. Fruit Brdg. Farm.

*†W. G. Brierley, Ph. D., Prof. Hort.; Hort.; +T. M. Currence, Ph. D., Prof. Hort.; Hort. +B. F. Dunn, M. S., Res. Assoc., Supt. Mayo

*†A. E. Hutchins, Ph. D., Assoc. Prof. and

Assoc. Hort.

*†F. A. Krantz, Ph. D., Prof. Hort.; Hort.

*†R. E. Nylund, Ph. D., Asst. Prof. and Asst. Hort.

Horticulture-Continued

*†R. A. Phillips, M. S., Asst. Prof. and Asst. Hort.

tL. C. Snyder, Ph. D., Ext. Assoc. Prof. Hort. C. Turnquist, M. S., Instr., Ext. Hort.

†O. C. Turnganos,
Spec.

*†T. S. Weir, M. S., Assoc. Prof. and Assoc.
Hort., Asst. Supt. Fruit Brdg. Farm.

*†R. E. Widmer, M. S., Instr. and Asst. in

*†A. N. Wilcox, Ph. D., Assoc. Prof. and Assoc. Hort. *†J. D. Wilter, M. S., Assoc. Prof. and Assoc.

Plant Pathology and Botany:

Hort.

*†E. C. Stakman, Ph. D., D. Nat. Sc., Prof. Plant Path.; Plant Path., Chief of Div. (Coop. U. S. D. A.).

*†C. M. Christensen, Ph. D., Prof. Plant Path.; Plant Path.

†J. J. Christensen, Ph. D., Prof. Plant Path.; Plant Path.

†R. U. Cotter, Ph. D., Path. (U. S. D. A.).

*†Louise Dosdall, Ph. D., Asst. Prof. Plant Path.; Mycol.

*†C. J. Eide, Ph. D., Prof. Plant Path.; Plant Path.

Path. *†Helen Hart, Ph. D., Prof. Plant Path.;

*†H. G. Heggeness, M. S., Instr. and Asst. in Plant Path.

†H. G. Heggeness, M. S., Instr. and Asst. in Plant Path.

†M. F. Kernkamp, Ph. D., Assoc. Prof. and Assoc. Plant Path.

†T. H. King, Ph. D., Asst. Prof. and Asst. Plant Path.

*†Thor Kommedahl, M. S., Instr. and Asst. in Plant Path. *†R. H. Landon, Ph. D., Asst. Prof. and Asst.

Plant Physiol. *†A. H. Larson, B. S., Asst. Prof. and Asst. Bot. (Coop. State Dept. Agr.).
†J. L. Larson, Seed Analyst in charge, Seed

Germination.

†M. N. Levine, Ph. D., Path. (U. S. D. A.). †W. Q. Loegering, Ph. D., Path. (U. S. D. A.). †M. B. Moore, M. S., Instr. and Asst. in Plant Path. *†M.

R. C. Rose, M. S., Ext. Asst. Prof. Plant Path.

†Thain Stewart. B. S., Agt. (U. S. D. A.). †A. G. Tolaas, M. S., Dir. Seed Potato Certification.

Poultry Husbandry:

*†H. J. Sloan, Ph. D., Prof. Poultry Husb.;
Poultry Husb., Chief of Div.

*†G. M. Briggs, Ph. D., Assoc. Prof. and
Assoc. Poultry Husb.

*†T. H. Canfield, M. S., Assoc. Prof. and
Assoc. Poultry Husb.

‡Cora E. Cooke, B. S., Ext. Asst. Prof.
Poultry Husb.

Poultry Husb.
N. Shoffner, Ph. D., Assoc. Prof. and

Assoc. Poultry Husb.

Publications and Journalism (Rural):

†‡H. B. Swanson, M. S., Asst. Prof., Editor. ‡G. R. McKay, M. S., Instr., Ext. Spec. Visual Ed. †‡Mrs. Josephine B. Nelson, M. A., Instr., Ext. Asst. Editor. †‡Margaret J. Nielsen, B. A., Asst. to the Editor.

tor.

G. Rupp, B. S., Instr., Information

Spec. ‡R. S. Wolf, B. S., Instr., Ext. Information Spec.

Sociology (Rural):

*†Lowry Nelson, Ph. D., Prof. Rural Sociol.; Rural Sociol.

Charlotte Kirchner, M. A., Ext. Asst. Prof. Rural Organ.

*†D. G. Marshall, Ph. D., Assoc. Prof. and Assoc. Rural Sociol.

Soils:

*†C. O. Rost, Ph. D., Prof. Soils Chem.; Chief

of Div.
*†#H. F. Arneman, M. S., Instr. and Asst. Soils Chem

M. Burson, M. S., Prof. Soils Chem.;

*† P. M. Butson, a. C., Soils Chem.

*†A. C. Caldwell, Ph. D., Assoc. Prof. Soils; Assoc. Soils Chem.

±E. R. Duncan, M. S., Ext. Asst. Prof. Soils.

‡R. S. Harris, B. S., Ext. Spec. Soil Conserv.

*†H. E. Jones, M. S., Asst. Prof. and Ext.

Soils Assoc. Soils Chem. *†J. M. MacGregor, Ph. D., Assoc. Prof. Soils; Assoc. Soils Chem. *†P. R. McMiller, M. S., Prof. Soils Chem.;

†P. R. MCMIller, M. S., Froj. Soils Chem., Soils Chem.
†I. J. Nygard, Ph. D., Senior Soil Sci. and Correlator (U. S. D. A.).
†Alex. Robertson, B. S., Collab. Soil Sci. (U. S. D. A.).
†M. A. Thorfinnson, B. S., Ext. Soil Conserv. Spec. (U. S. D. A.).

Veterinary Medicine:

Veterinary Medicine:

*†W. L. Boyd, D. V. S., Prof. Vet. Med.; Vet. and Dir. School of Vet. Med.

*†D. E. Bartlett, D. V. M., Instr. and Asst. in Vet. Med.

‡W. A. Billings, D. V. M., Est. Asst. Prof. Vet. Med.

†R. W. Brown, D. V. M., Asst. in Vet. Med.

†J. N. Campbell, D. V. S., B. S., Prof. Vet. Med.; Vet. Med.

*†G. M. Christison, M. A., Instr. and Asst. in Vet. Med.

*†G. H. Conner, D. V. M., M. S., Instr. and Asst. in Vet. Med.

*†R. B. England, D. V. M., Instr. and Asst. in Vet. Med.

*†R. Be England, D. V. M., Instr. and Asst. in Vet. Med.

*†Reuel Fenstermacher, D. V. M., Prof. Vet. Med.; An. Path.

*†Jean C. Flint, D. V. M., M. S., Instr. and Asst. in Vet. Med.

*†H. J. Griffiths, D. V. M., Ph. D., Assoc. Prof. and Assoc. Vet.

*†W. J. Hadlow, D. V. M., Instr. and Asst. in Vet. Med.

†Allan Hemingway, Ph. D., Prof. Vet. Med.; Biol. Ohem.

*†J. F. Henry. Jr., B. S., D. V. M., Instr.

*†Allan Hemingway, Ph. D., Prof. Vet. Med.; Biol. Chem.

*†J. F. Henry, Jr., B. S., D. V. M., Instr. and Asst. in Vet. Med.

*†W. R. Hess, M. S., Instr. and Asst. in Vet. Med.

*†H. H. Hoyt, D. V. M., Ph. D., Asst. Prof. and Asst. in Vet. Med.

*†H. C. H. Kernkamp, D. V. M., M. S., Prof. Vet. Med.; Vet.

*†R. L. Kitchell, D. V. M., Instr. and Asst. in Vet. Med.

*†W. A. Malmquist, D. V. M., Instr. and

A. Malmquist, D. V. M., Instr. and Asst, in Vet. Med.

*†G. W. Mather, D. V. M., Instr. and Asst. in Vet. Med. *†R. A. Merrill, D. V. M., Assoc. Prof. and

*†T. B. Odell, Ph. D., Asst. Prof. and Asst. Vet. Med.

*†B. S. Pomeroy, D. V. M., Ph. D., Prof. Vet. Med.; An. Path.
*W. R. Pritchard, D. V. M., Instr. and Asst. in Vet. Med.
*†M. H. Roepke, Ph. D., Prof. Vet. Med.; Biol. Chem.

Veterinary Medicine-Continued

*†J. H. Sautter, D. V. M., Ph. D., Assoc. Prof. and Assoc. Vet.

*†A. F. Sellers, D. V. M., Ph. D, Assoc. Prof. and Assoc. Vet.

*†F. A. Spurrell, D. V. M., Instr. and Asst. in Vet. Med.

*†C. M. Stowe, B. S., D. V. M., Instr. and Asst. in Vet. Med.

*†C. C. Turbes, D. V. M., M. S., Instr. and Asst. in Vet. Med.

*†A. F. Weber, D. V. M., Ph. D., Asst. Prof. and Asst. Vet.

†J. E. Williams, D. V. M., Asst. in Vet. Med.

Miscellaneous:

*†E. W. McDiarmid, Ph. D., Chief Libr.,

*†Harald Ostvold, M. A., Asst. Prof. and Libr

*†Harriet W. Sewall, B. A., Prin. Libr. †O. W. Swenson, Asst. Prof. and Farm and Grounds Supt.

Substations:

North Central Expt. Sta., P. O., Grand Rapids— D. L. Dailey, B. S., Assoc. Prof. and

Supt.

R. B. Aakre, B. S., Asst. Prof. and Asst. Agr. Engin.
C. H. Griffith, B. S., M. Ph., Asst. Prof.

and Asst. Agron. K. P. Miller, M. S., Asst. Prof. and Asst.

K. P. Miller, M. S., Asst. Proj. and Asst. An. Husb.
C. R. Olson, B. S., Instr. and Asst. in Hort.
Northeast Expt. Sta., P. O., Duluth—
M. J. Thompson, M. S., Prof. and Supt.
Northwest Expt. Sta., P. O., Crookston—
T. M. McCall, M. S., Prof. and Supt.
B. C. Beresford, M. S., Asst. Prof. and Asst. Hort.

Asst. Hort.

H. D. Fausch, B. S., Instr. and Asst. in An. Husb. A. M. Foker, Asst. Prof. and Asst. Agr.

Engin

O. M. Kiser, M. S., Asst. Prof. and Asst. An. and Dairy Husb. A. M. Pilkey, Instr. and Asst. in Poultry

Husb. H. W. Soderburg, M. A., Asst. Prof. and

Asst. Agr. Engin.
O. C. Soine, Ph. D., Assoc. Prof. and

Assoc. Agron. Rosemount Expt. Sta. Branch, P. O., Rosemount-

mount—
A. C. Heine, B. S., Assoc. Prof. and Supt.
Southeast Expt. Sta., P. O., Wascca—
R. E. Hodgson, M. S., Prof. and Supt.
West Central Expt. Sta., P. O., Morris—
A. W. Edson, M. S., Prof. and Supt.
R. O. Bridgford, M. S., Assoc. Prof. and and Assoc. Agron.
H. G. Croom, M. S., Asst. Prof. and Asst.
Poultry Husb.

Poultry Husb. W. H. Gray, B. S., Instr. and Asst. in Hort.

P. S. Jordan, B. S., Assoc. Prof. and Assoc. An. Husb. L. K. Lindor, B. S., Asst. Prof. and Asst. Agr. Engin. B. E. Youngquist, B. S., Asst. Prof. and

Asst. Agr. Engin.

MISSISSIPPI

Mississippi State College and Agricultural Experiment Station, State College

*College faculty. †Station staff. ‡Extension staff.

*F. T. Mitchell, Ph. D., President.

*Herbert Drennon, Ph. D., Dean of College, Dean of Grad. School.

††F. J. Welch, Ph. D., Dean School of Agr., Dir. of Sta.

*E. B. Colmer, M. S., Assoc. Dean School of Agr.

‡L. I. Jones, M. S., Dir. of Eat.

†M. S. Shaw, M. S., Asst. Dir. of Ext.

†‡L. F. Mallory, B. S., Comptroller.

Agronomy:

*†C. D. Hoover, Ph. D., Prof. and Head of

Dept. †J. F. O'Kelly, M. S., Agron. and Plant Breeder

*A. D. Suttle, Ph. D., Prof. Agron.

*†W. B. Andrews, Ph. D., Prof. and Assoc.
in Soils.

in Soils.

†J. L. Anthony, M. S., Asst. Agron.
†H. W. Bennett, Ph. D., Assoc. Agron.
†H. D. Bunch, M. S., Asst., Agron.
†Roland Cowart, Ph. D., Assoc. Prof. and Assoc. in Soils.

†W. J. Drapala, Ph. D., Assoc. Prof. and Assoc. Agron.
†R. C. Eckhardt, Ph. D., Agron. (Coop. U. S. D. A.).
†\$M. D. Finkner, M. S., Assoc. Prof. and Assoc. in Agron.

78M. D. FIIRHER, M. S., MISSOC. 17. A. ASSOC. in Agron.

‡L. E. Gholston, Asst. Ext. Agron.

‡W. L. Giles, Ph. D., Assoc. Prof. and Assoc.

Agron.
*G. D. Green, M. S., Asst. Prof.
*†U. S. Jones, Ph. D., Assoc. Prof. and Assoc.

*†U. S. Jones, Pn. D., Assoc. Proj. ana Assoc. in Agron.
†H. V. Jordan, M. S., Soil Technol. (Coop. U. S. D. A.).
†W. E. Keenan. B. S., Asst. Soil Surveyor.
†\$R. J. Laird, M. S., Asst. in Agron.
†E. J. McNutt, B. S., Asst. Soil Surveyor.
*‡I. E. Miles, Ph. D., Prof.; Leader, Ext. Agron.

Agron.

†C. G. Morgan, M. S., Soil Surveyor. †J. W. Neely, B. S., Asst. in Agron. †J. C. Powell, B. S., Asst. Soil Surveyor. †W. A. Raney, Ph. D., Asst. Prof. and Asst.

Agron.
†G. E. Rogers, B. S., Asst. Soil Surveyor.
†W. R. Thompson, Assoc. Leader, Ext.

†W. K. Thompson, Assoc. Leauer, Ewe. Agron.

†H. B. Vanderford, Ph. D., Prof. and Assoc. in Soits.

‡T. M. Waller, B. S., Asst. Ext. Agron.

†D. G. Wells, Ph. D., Assoc. Prof. Crops.

†L. N. Wise, Ph. D., Asst. Prof. and Asst. Agron.

Animal Husbandry:

*†H._H. Leveck, M. S., Prof. and Head of

**ib. F. Barrentine, Ph. D., Assoc. Prof. and Assoc. in An. Husb.

*†P. G. Bedenbaugh, M. S., Asst. Prof. and Asst. An. Husb.

*J. L. Fletcher. M. S., Assoc. Prof. An. Husb.

*E. E. Grissom, M. S., Assoc. Ext. An. Husb.

*\$L. H. Horn, M. S., Instr. An. Husb.

†R. M. Lancaster, B. S., Asst. Ext. An. Husb.

IR. M. Husb.

† Duff Maxwell, Herdsman. †P. F. Newell, M. S., Ext. An. Husb. Leader. *T. B. Patterson, M. S., Instr. An. Husb. *D. R. Pingrey, B. S., Instr. An. Husb. †W. L. Richmond, B. S., Asst. Ext. An. Husb.

Bacteriology:

*H. H. Harned, Ph. D., Prof. and Head of Dept

*D. J. Richey, M. S., Asst. Prof. Bact.

Botany:

S. Ivanoff, Ph. D., Assuand Actg. Head of Dept. †S. S. Assoc. Plant Path.

Botany-Continued

*R. B. Channell, M. S., Instr. Bot.
†W. W. Hare, Ph. D., Assoc. Plant Path.
†V. C. Harris, M. S., Asst. Plant Physiol.
(Coop. U. S. D. A.).
*G. W. Johnston, Ph. D., Assoc. Prof. Bot.
*J. F. Locke, Ph. D., Actg. Prof. Bot.
*J. T. E. Summers, M. S., Asst. Plant Path.
(Coop. U. S. D. A.).

Chemistry:

*M. P. Etheredge, Ph. D., Prof. and Head of Dept. (State Chem.)

*E. C. Adams, Ph. D., Assc. Prof. Chem.

*L. C. Behr, Ph. D., Assoc. Prof. Chem.

*J. T. Brent, B. S., Actg. Instr. Chem.

†Marvin Gieger, B. S., Chem.

†Lois Hegwood, B. S., Asst. in Chem.

*\$E. C. Hendley, Ph. D., Assoc. Prof. Chem.

*Mrs. Bessie B. Lollar, B. S., Actg. Instr. Chem.

Chem.
*W. A. Reinhardt, B. S., Asst. Prof. Chem.

*W. A. Reimard,
Engin.

*C. Q. Sheely, Ph. D., Prof. Chem.

*Mrs. Mary V. Simrall, B. S., Actg. Instr. Chem.
*Paul Warttman, Ph. D., Prof. Chem.

Dairy Husbandry:

*†F. H. Herzer, M. S., Prof. and Head of Dept.

Dept.

Dept.

Arlis Anderson, B. S., Asst. Ext. Dairyman.

W. C. Cowsert, M. A., Assoc. Prof. Dairy

Husb.

E. W. Custer, B. S., Instr. Dairy Mfg.

G. A. Freeman, M. S., Instr. Dairy Mfg.

L. A. Higgins, B. S., M. Agr., Leader, Ext.

Dairy Husb.

Jairy Husb.

Jairy Husb.

A. L. McLanghlin, M. S., Assoc. Ext. Dairy

man Artificial Brdg.

Lantis Ratcliff, B. S., Instr. Dairy Prod.

Dairyman.

Dairyman.

Economics (Agr.) and Rural Sociology:

*†R. J. Saville, Ph. D., Prof. and Head of

*†R. J. Saville, Ph. D., Prof. and Head of Dept.

*W. P. Carter, Ph. D., Prof. Sociol.

*†W. E. Christian, M. S., Assoc. Prof. Agr.

Econ.

*†R. L. Davis, M. S., Asst. Prof. Agr. Econ.

†W. A. Faught, M. S., Agt. in Econ. (Coop.

U. S. D. A.).

*†J. P. Gaines, M. S., Asst., Prof. Agr. Econ.

*†J. F. Kaufman, Ph. D., Prof. and Head of Div. Sociol. and Rural Life.

*†E. E. Kern, M. S., Asst. Prof.

*†M. T. Loftin, M. A., Asst. Prof. Sociol.

and Rural Life.

‡T. M. Montgomery, M. S., Assoc. Ext. Econ.

and Rural Life.

‡T. M. Montgomery, M. S., Assoc. Ext. Econ.

‡L. A. Olson, B. S., Contact Officer, TVA.

†O. T. Osgood, Ph. D., Assoc. Agr. Econ.

‡J. V. Pace, M. S., Ext. Econ. in charge.

*†\$D. W. Parvin, Ph. D., Assoc. Prof. and

*†H. A. Pedersen, Ph. D., Asst. Prof. Rural

Sociol.

†H. I. Putner, M. A. Leader, Wild St. V.

‡H. J. Putnam, M. A., Leader, Field Studies and Training.
*D. W. Rivers, M. S., Asst. Prof. Sociol.

Economics (Agr.) and Rural Sociology-Con.

†H. P. Todd, Asst. in Agr. Econ.

†T. B. Tramel, Instr. Agr. Econ.

†C. M. Wells, M. S., Asst. Prof. Agr. Econ.

† P. H. Sanders, B. S., Agr. Editor and Res.

Correlator.

†G. C. Rutledge, B. A., Assoc. Editor.

‡J. L. Flowers, Leader, Ext. Information.

†Mrs. Annie B. Hudson, Ext. Illus.

This. Annie B. Hudson, Etc. Intes.
D. B. Rosenkrans, Jr., B. S., Asst. Information Spec.
This. Edna K. Wilkerson, Asst. Ext. Information Spec.
T. L. Wilkerson, B. S., Asst. Ext. Information Spec. mation Spec.

Education (Agr.):

*B. P. Brooks, M. A., Dean of School. *V. G. Martin, M. S., Prof. Agr. Ed. and Head of Dept.

*J. R. Hamilton, M. S., Asst. Prof. Agr. Ed.

*J. F. Scoggin, M. S., Assoc. Prof. Agr. Ed. *O. L. Snowden, Ph. D., Assoc. Prof. Agr. Ed.

Engineering (Agr.):

*†W. C. Howell, M. S., Prof. and Head of Dept.
T. Copeland, B. S., Leader, Ext. Agr.

Dept.
4J. T. Copeland, B. S., Leader, Ext. Agr.
Engin.
†T. N. Jones, M. S. A. E., Agr. Engin.
†R. F. Colwick, M. S., Cotton Mechanization Correlator.
†R. F. Dudley, B. S., Asst. Agr. Engin.
†O. W. Easley, B. S., Asst. Agr. Engin.
*†F. E. Edwards, M. S., Assoc. Prof. Agr.
Engin.

*W. R. Glover, B. S., Instr. Agr. Engin.

*W. R. Glover, B. S., Instr. Agr. Engin.

*J. G. Griffin, M. S., Asst. Prof. Agr. Engin.

‡W. D. Howell, B. S., Assoc. Ext. Agr. En-

‡W. D. Howell, B. S., Assoc. Ext. Agr. Engin.
‡F. M. Hunter, B. S., Rural Electrification Spec.
‡T. J. Johnston, Asst. Ext. Agr. Engin.
*E. A. Kimbrough, Jr., B. S., Instr. Agr. Engin.
‡W. C. Massey, B. S., Asst. Ext. Agr. Engin.
*J. C. McWhorter, M. S., Assoc. Prof. Agr. Engin.

Engin. ‡K. R. Ray, Asst. Ext. Agr. Engin. ‡L. Maude Smith, B. S., Rural Electrification Spec.

K. Smith, Ext. Rural Electrification

tron Spec.
R. K. Smith, Ext. Rurat Electrical.
Spec.
*F. K. Vickers, B. S., Actg. Instr. Agr.
Engin.
†C. F. Wilkinson, B. S., Arch. Engin.
†Russell Woodburn, B. S., Assoc. in Agr.
Engin. (Coop. U. S. D. A.).

Entomology-See Zoology.

Extension Administration:

‡L. I. Jones, M. S., Dir. ‡M. S. Shaw, M. S., Asst. Dir. ‡H. S. Johnson, B. S., Leader Organ. and Program Planning. ‡May Cresswell, B. S., State Home Dem.

Agt. ‡R. O. Monosmith, State Leader 4-H Clubs. ‡C. M. Chafee, B. S., Assoc. State 4-H Club Leader.

Miss Earle Gaddis, Spec. Asst. to State Home Dem. Agt. ‡Blanche Goad, B. A., Assoc. State 4-H Club

Leader

‡L. O. Palmer, M. S., Assoc. State 4-H Club Leader.

Leader.

H. A. Carpenter, B. S., Dist. Agt.

Mrs. Margaret Cresswell, Dist. Agt.

E. E. Deen, B. S., Dist. Agt.

Olive M. Dowell, M. A., Dist. Agt.

Addie Hester, M. A., Dist. Agt.

Elaine E. Massey, Dist. Agt.

W. C. Mims, B. S., Dist. Agt.

Extension Administration-Continued

trension Administration—Continued ± J. E. Stanley, B. S., Dist. Agt. ± Sallie S. Swann, A. B., Dist. Agt. ± J. R. Williams, Dist. Agt. ± R. L. Bowen, Ext. Acct. ± W. A. Cox, Asst. Chief Clerk. ± W. T. May, Chief Clerk. ± W. T. Snapp, B. S., Assoc. Ext. Acct. ± May L. Ward, Asst. Ext. Acct.

Forestry:

*†R. T. Clapp, M. F., Prof. and Head of Dept.

†G. M. Furnival, B. S. F., Asst. For.

†W. C. Hopkins, M. F., Assoc. in For.

*E. G. Roberts, M. F., Assoc. Frof. For.

‡R. R. Robertson, B. S. F., Assoc. Ext. For.

*J. L. Smith, M. S., Instr. in For.

*J. W. Starr, B. S., Instr. in For.

\$\$J. S. Therrell, B. S. F., M. S., Ext. For.

Leader.

Geology:

*P. H. Dunn, Ph. D., Prof. and Head of Dept.
*G. E. Burchfield, M. S., Instr. Geol.
*C. C. Carney, M. A., Asst. Prof. Geol.
*R. J. Hughes, Jr., M. A., Asst. Prof. Geol.
*M. W. Myers, Ph. D., Actg. Prof. Geol.

Home Economics:

†Dorothy Dickins, Ph. D., Head of Dept. †Mrs. Annette S. Boutwell, B. S., Ext. Health

ning Spec. ‡Mrs. Anna P. Felder, M. S., Food and Nutr.

†Mrs. Anna P. Feider, M. S., Food and R. W. Spec.

Eva E. Legett, Spec. in Consumer Ed.

†Mrs. Laverne M. Permenter, M. S., Asst. in Home Econ.

‡Bonnie D. Sansom, A. M., Home Mgt. Spec.

*Esther F. Segner, M. S., Actg. Assoc. Prof. and Actg. Head Dept. of Homemaking Ed.

†Olive A. Sheets, M. S., Assoc. in Home Econ.

Econ.
†Sarah J. Sherrill, M. S., Asst. Home Econ.

Horticulture:

*†W. S. Anderson, M. S., Prof. and Head of

*†W. S. Anderson, M. S., Prof. and Head of Dept.

*†F. S. Batson, M. S., Prof. and Assoc. Hort.

†J. L. Bowers, Ph. D., Assoc. Prof. and Assoc. Hort.

‡K. H. Buckley, B. S., Asst. Ext. Hort.

*J. B. Edmond, Ph. D., Prof. Hort.

*Chesley Hines, B. S., Leader, Ext. Hort.

*†E. W. McElwee, M. S., Prof. and Assoc. in Hort.

†E. U. Moore, M. S. Asst. Prof. Hort.

†E. L. Moore, M. S., Asst. Prof. Hort. †J. P. Overcash, Ph. D., Assoc. in Hort. *†C. H. Ragland, Ph. D., Prof. Hort. ‡H. J. Smith, M. S., Asst. Ext. Hort. *W. J. Stemme, B. S., Instr. Hort.

Marketing:

†S. W. Box, B. S., Leader, Ext. Mktg. ‡C. L. Cary, Asst. Ext. Mktg. Spec. ‡Mary A. Gordon, B. S., Ext. Econ., Home

TMARY A. GORGON, B. S., Ewt. Econ., Home Mkty.

‡J. W. Helms, B. S., Asst. Ext. Mktg. Spec.

‡H. L. Jones, Asst. Ext. Mktg. Spec.

‡W. E. Jones, M. S., Asst. Ext. Mkty. Spec.

‡E. D. Martindale, M. S., Assoc. Ext. Mktg.

Spec. ‡J. S. McKewen, Asst. Ext. Mktg. Spec. ‡F. M. Smith, B. S., Asst. Ext. Mktg. Spec.

Physics:

*E. I. Howell, Ph. D., Prof. and Head of Dept.

*J. M. DeMarche, M. S., Instr. Phys.

*C. A. Rose, M. S., Asst. Prof. Phys.

*E. F. Scott, M. S., Asst. Prof. Phys.

*H. C. Thomas, M. S., Assoc. Prof. Phys.

Poultry Husbandry:

*†J. E. Hill, M. S., Asst. Prof. and Actg. Head of Dept.

†R. P. Wann, Asst. Ext. Poultryman.

†O. M. Williams, B. S., Instr. Poultry Husb.

†J. P. Yount, B. S., Leader, Ext. Poultry

Agricultural Economics and Sociology Rural Sociology.

Soil Conservation:

‡C. R. Ashford, B. S., Ext. Soil Conserv.

Veterinary Science:

*†J. W. Scales, M. S., D. V. M., Prof. and Head of Dept. *†J. L. Arnandez, D. V. M., Actg. Asst. Bact. †J. H. Drudge, Ph. D., Parasit. *H. F. McCrory, D. V. M., B. S., Asst. Prof. Vet. Sci.

Zoology and Entomology:

*†‡Clay Lyle, Ph. D., Prof. Zool.; Ent. and Head of Dept.
†W. A. Douglas, M. S., Assoc. Ent. (Coop. U. S. D. A.).
†H. B. Green, M. S., Asst. Ent.
†A. L. Hamner, M. S., Assoc. Ent.
*R. E. Hutchins, Ph. D., Prof. Zool. and

Ent. †L. C. Murphree, B. S., Leader, Ext. Ent. *R. E. Schuster, B. S., Instr. Zool. and Ent. *E. W. Stafford, Ph. D., Prof. Zool. and Ent. *C. A. Wilson, M. S., Asst. Prof. Zool. and

Miscellaneous:

*D. E. Thompson, Dir. of Libraries.

Substations:

F. J. Welch, Ph. D., Dir.
Black Belt Branch Expt. Sta., P. 0.,

Brooksville— L. B. Walton, B. S., Supt.

Substations-Continued

Brown Loam Branch Sta., P. O., Oakley— R. H. Means, M. S., Supt. S. L. Wedgeworth, M. S., Agron. Coastal Plain Branch Expt. Sta., P. O.,

Newton-

Coastal Plain Branch Expt. Sta., P. O.,

Newton—
Roy Kuykendall, M. S., Supt.
C. H. Bell, Dairy Spec.
B. C. Hurt, B. S., Agron.

Delta Branch Sta., P. O., Stoneville—
D. G. Miley, Ph. D., Supt.
D. H. Bowman, M. S., Grain Spec.
H. R. Carns, M. S., Assoc. Plant Physiol.
J. B. Dick, M. S., Agron.

§Battle Ewing, M. S., Agr. Engin.
E. C. Ewing, B. S., Asst. Agron.
L. R. Farish, M. S., Hort.
P. H. Grissom, M. S., Agron.
D. Guravich, M. S., Geneticist.
J. T. Holstun, Jr., M. S., Agron.
P. G. Hogg, Ph. D., Agron.
W. E. Meek, M. S., Assoc. Geneticist.
Buford Williamson, B. S., Agr. Engin.
J. R. Meyer, M. S., Assoc. Geneticist.
Buford Williamson, B. S., Agr. Engin.
H. A. York, B. S., Asst. Agron.
Holly Springs Branch Sta., P. O., Holly
Springs—
S. P. Crockett, M. S., Supt.
B. L. Arnold, M. S., Agron.
O. K. Morgan, Foreman.
Natchez Branch Sta., P. O., Natchez—
J. A. Barwick, B. S., Supt.
Northeast Miss. Branch Expt. Sta., P. O.,
Verona—
R. C. Albritton, B. S., Supt.

Verona

Verona—
R. C. Albritton, B. S., Supt.
South Miss. Branch Sta., P. O., Poplarville—
T. E. Ashley, M. S., Supt.
C. L. Blount, M. S., Agron.
J. B. Gill, M. S., Agron.
Truck Crops Branch Sta., P. O., Crystal

Springs—
J. A. Campbell, M. S., Supt.
D. C. Bain, Ph. D., Plant Path.
S. L. Windham, B. S., Asst. Hort.

Alcorn Agricultural and Mechanical College, Alcorn

*Agricultural and Home Economics faculty.

*J. R. Otis, Ph. D., President.
*J. A. Jackson, M. Agr. Ed., Dir. Div. of Agr.
*D. D. Gordon, M. S., Dir. Div. of Home Econ.

*C. B. Barron, B. S., Instr. and Head Dept. of Dairy Husb.

*T. M. Bell, B. S., Agron.

*J. D. Boyd, M. S., Agron.

*E. S. Burke, M. S., Instr. Poultry.

*R. H. Derden, B. S., Asst. Teacher-Trainer

*K. H. Derden, B. S., Asst. Teacher-Trainer in Agr. Ed.
*H. E. DuBose, M. S., Instr. Agr. Econ.
*A. D. Fobbs, M. S., Head Teacher-Trainer in Agr. Ed.
*Mirs. J. M. Fobbs, M. S., Instr. Clothing.
*H. B. Garner, B. S., Instr. and Head Dept. of An. Husb.

*A. G. Gordon, B. S., Itinerant Teacher-trainer in Agr. Ed. *B. V. Johnson, M. S., Agr. Econ. Res. *Z. P. Price, M. S., Asst. Teacher-Trainer in

Home Econ.

Home Econ.
*S. H. Reed, M. S., Instr. Child Development and Nursery School.
*F. R. Richardson, B. S., Instr. Foods and Nutr.
*Nutr.
*Louis Simmons, B. S., Instr. and Head

Dept. of For.

MISSOURI

Division of Agricultural Sciences, College of Agriculture, and the Agricultural Experiment Station of the University of Missouri, Columbia

‡Extension staff. *College faculty. †Station staff. \$Leave of absence.

*F. A. Middlebush, Ph. D., LL. D., President of University.

†J. H. Longwell, Ph. D., Dir. Div. Agr. Sci., Dean Coll. of Agr., Dir. of Sta.

‡J. W. Burch, A. M., Dir. of Agr. Ext. Service.

†S. B. Shirky, A. M., Assoc. Dean Coll. of Agr., Assoc. Dir. of Sta.

†R. B. Price, LL. B., Treas.

Animal Husbandry:

*†L. A. Weaver, B. S., Prof. and Chair. of Dept.

*†G. F. Aker, B. S., Asst. Instr. An. Husb.

Animal Husbandry-Continued

*†R. L. Arthaud, M. S., Asst. Instr. An. Husb. *†C. Bradley, B. S., Asst. Instr. An. Husb. *†D. E. Brady, Ph. D., Prof. An. Husb.

Animal Husbandry-Continued

Husb.

*†L. F. Tribble, M. S., Asst. Instr. An. Husb. (Coop. U. S. D. A.). *†Louisa N. Tucker, B. S., Asst. Instr. An.

Botany:

*†C. M. Tucker, Ph. D., Prof. and Chair. of

*T. W. Bretz, Ph. D., Assoc. Prof. Bot. (Coop.

*T. W. Bretz, Ph. D., Assoc. Prof. Bot. (Coop. U. S. D. A.).

*†R. F. Brooks, Ph. D., Assoc. Prof. Bot.

*A. C. Faberge, Ph. D., Assoc. Prof. Bot.

*J. P. Hollis, Ph. D., Asst. Prof. Bot.

†C. H. Kingsolver, Ph. D., Asst. Prof. Bot.

*Clair L. Kucera, Ph. D., Asst. Prof. Bot.

†Jacob Levitt, Ph. D., Assoc. Prof. Bot.

†D. F. Millikan, B. S., Res. Asst. Bot.

*E. M. Palmquist, Ph. D., Prof. Bot.

*J. R. Singleton, Ph. D., Asst. Prof. Bot.

*D. S. Van Fleet, Ph. D., Assoc. Prof. Bot.

Chemistry (Agr.):

*†A. G. Hogan, Ph. D., Prof. and Chair. of

*†E. W. Cowan, A. M., Asst. Prof. Agr. Chem.

†Laura M. Flynn, Ph. D., Asst. Prof. Agr.

*†C. W. Gehrke, Ph. D., Assoc. Prof. Agr. Chem.

D. Haigh, Ph. D., Assoc. Prof. Agr. Chem.

†W. B. House, A. M., 1900.
Chem.
†D. T. Mayer, Ph. D., Assoc. Prof. Agr.

Chem.

Chem.

Chem.

Asst. Prof. Agr. *†M.

*†B. L. O'Dell, Ph. D., Chem.

*†E. E. Pickett, Ph. D., Asst. Prof. Agr.

Dairy Husbandry:

*†A. C. Ragsdale, M. S., Prof. and Chair. of

†C. R. Blincoe, A. M., Instr. Dairy Husb. †Samuel Brody, Ph. D., Prof. Dairy Husb. †Gloria U. Burge, A. B., Res. Asst. Dairy Husb

*‡W. H. Cloninger, B. S., Ext. Assoc. Prof. Dairy Husb.

††J. W. Cobble, A. M., Instr. Dairy Husb.

††J. E. Edmundson, A. M., Asst. Prof. Dairy

*†J. E. Edmundson, A. M., Asst. Prof. Dairy Husb.

*†J. H. Gholson, A. M., Instr. Dairy Husb.

*†J. H. Gholson, A. M., Instr. Dairy Husb.

*†J. H. Gholson, A. M., Instr. Dairy Husb.

†E. T. Itschner, M. A., Ext. Assoc. Prof. Dairy Husb.

(Coop. U. S. D. A.).

*†C. P. Merilan, M. S., Instr. Dairy Husb.

*†M. J. Regan, A. M., Ext. Prof. Dairy Husb.

*†W. H. E. Reid, M. A. Prof. Dairy Husb.

*†W. H. E. Reid, M. A., Instr. Dairy Husb.

*†C. W. Tulman, A. M., Instr. Dairy Husb.

†C. W. Turner, Ph. D., Prof. Dairy Husb.

†Dorothy Worstell, B. S., Res. Assoc. Dairy Husb. (Coop. U. S. D. A.).

Economics (Agr.):

*†O. R. Johnson, A. M., Prof. and Chair. of DeptP. H. Bebermeyer, M. S., Ext. Assoc. Prof.

Agr. Econ.

Paul Cornelison, B. S., Ext. Asst. Prof.

*†Bull Cornellson, B. S., Ext. Asst. Prof. Agr. Econ.

*†J. E. Dillion, B. S., Asst. Instr. Agr. Econ.

*†C. C. Erwin, M. S., Asst. Prof. Agr. Econ.

*†B. H. Frame, A. M., Prof. Agr. Econ.

*†J. C. Grady, Jr., M. S., Instr. Agr. Econ.

‡A. R. Hagan, A. M., Ext. Assoc. Prof. Agr.

†A. R. Hagan, A. M., Econ.

*†E. R. Kiehl, A. M., Instr. Agr. Econ.

*†M. B. Kirtley, B. S., Asst. Instr. Agr. Econ.

†C. E. Klingner, A. M., Ext. Prof. Agr.

†C. E. Klingner, A. M., Ext. Prof. Agr. Econ.

†J. W. McKinsey, A. M., Instr. Agr. Econ.

†C. R. Meeker, B. S., Ext. Assoc. Prof. Agr.

*†Frank Miller, Ph. D., Prof. Agr. Econ.

††Frank Miller, A. M., Inst. Agr. Econ.

†J. H. Miller, A. M., Inst. Prof. Agr. Econ.

‡J. M. Ragsdale, B. S., Ext. Asst. Prof.

Agr. Econ.

‡James Reynolds, M. A., Ext. Asst. Prof. Agr. Econ.

‡Herbert Rolf, B. S., Ext. Asst. Prof. Agr.

Econ.
*†R. C. Suter, Ph. D., Asst. Prof. Agr. Econ.
‡Marvin Vines, B. S., Ext. Asst. Prof. Agr.

‡§D. C. Wood, A. M., Ext. Assoc. Prof. Agr.

Editorial:

*†‡A. A. Jeffrey, A. B., Agr. Editor. *†O. V. Bay, B. S., Asst. Agr. Editor. †Mrs. Rose S. Florea, Asst. Agr. Editor. ;Kenneth McDermott, M. S., Assoc. Agr. Editor

Bryan Phifer, B. S., Asst. Agr. Editor.

Education (Agr.):

*G. F. Ekstrom, Ph. D., Prof. Agr. Ed. *†J. W. Duck, A. M., Asst. Prof. Agr. Ed. *†C. V. Roderick, A. M., Asst. Prof. Agr. Ed.

Engineering (Agr.):

*†M. M. Jones, M. S., Prof. and Chair. of Dept.

*†R. P. Beasley, A. M., Asst. Prof. Agr. Engin.

*†B. J. Butler, M. S., Instr. Agr. Engin.

†M. W. Clark, B. S., Ext. Prof. Agr. Engin.

†C. L. Day, A. M., Asst. Prof. Agr. Engin.

‡H. J. Hall, B. S., Ext. Assoc. Prof. Agr.

‡H. J. Hall, B. S., Ext. Assoc. Prof. Agr. Engin.

*K. B. Huff, A. M., Prof. Agr. Engin.

†R. M. McCroskey, Jr., M. S., Res. Asst. Agr. Engin.

*J. S. McKibben, B. S., Instr. Agr. Engin.

*†C. M. Reaves, B. S., Instr. Agr. Engin.

‡R. L. Ricketts, B. S., Ext. Assoc. Prof. Agr. Engin. Engin.

‡Carl Scheneman, B. S., Ext. Instr. Agr.

Engin. ‡C. E. Stevens, Jr., B. S., Ext. Asst. Prof.

*†R. E. Stewart, M. S., Instr. Agr. Engin.

*†R. E. Stewart, M. S., Instr. Agr. Engin.

*L. H. Tempel, B. S., Asst. Instr. Agr. Engin.

†H. J. Thompson, M. S., Res. Assoc. in Agr. Engin. (Coop. U. S. D. A.).

*†J. C. Wooley, M. S., Prof. Agr. Engin.

Entomology:

*†Leonard Haseman, Ph. D., Prof. and Chair.

*†Leonard Haseman, Fn. D., 1.70, South of Dept.

† H. E. Brown, A. M., Assoc. Prof. Ent.

‡ Virgil Burk, B. S., Ext. Assoc. Prof. Ent.

† W. R. Enns, A. M., Instr. Ent.

† A. L. Jenkins, M. S., Assoc. Prof. Ent.

† P. C. Stone, Ph. D., Assoc. Prof. Ent.

† G. W. Thomas, A. M., Instr. Ent.

† C. W. Wingo, A. M., Asst. Prof. Ent.

Extension Administration:

Extension Administration:

\$\frac{1}{3}\text{ W. Burch, A. M., Dir.} \\
\$\frac{1}{3}\text{ E. Crosby, Jr., M. A., Asst. Dir.} \\
\$\frac{1}{3}\text{ E. Crosby, Jr., M. A., Asst. Dir.} \\
\$\frac{1}{3}\text{ E. Crosby, Jr., M. A., Asst. Dir.} \\
\$\frac{1}{3}\text{ E. Thomasson, B. S., Asst. Dir.} \\
\$\frac{1}{3}\text{ E. Cloub, B. S., State Evt. Agt.} \\
\$\frac{1}{3}\text{ Din Burkeholder, B. S., State Evt. Agt.} \\
\$\frac{1}{3}\text{ Crowley, B. S., State Club Agt.} \\
\$\frac{1}{3}\text{ Anita Dickson, M. A., State Ext. Agt.} \\
\$\frac{1}{3}\text{ Apt. That Dickson, M. A., State Ext. Agt.} \\
\$\frac{1}{3}\text{ Apt. That Ext. Agt.} \\
\$\frac{1}{3}\text{ Apt. That Ext. Agt.} \\
\$\frac{1}{3}\text{ B. W. Harrison, B. S., State Ext. Agt.} \\
\$\frac{1}{3}\text{ Apt. That Ext. Agt.} \\
\$\frac{1}{3}\text{ Apt.} \\
\$\frac{1}\text{ Apt.} \\
\$\frac{1}{3}\text{ Apt.} \\
\$\frac{1}{3}\text{ Home Dem. Agt.

Field Crops:

*†W. C. Etheridge, Ph. D., Prof. and Chair. of Dept. *†J. D. Baldridge, Ph. D., Asst. Prof. Field

*†E. M. Brown, Ph. D., Prof. Field Crops (Coop. U. S. D. A.). *†L. E. Cavanah, M. S., Asst. Instr. Field

*†L. E. Crops. *†Kenneth Cloninger, B. S., Instr. Field

†C. V. Feaster, Ph. D., Res. Assoc. in Field Crops (Coop. U. S. D. A.). ‡J. R. Fleetwood, A. M., Ext. Prof. Field Crops. †O. H. Fletchall, B. S., Asst. Instr. Field

*†O. H. Fletchall, B. S., Asst. Instr. Field Crops.
Crops.

*†C. A. Helm, A. M., Prof. Field Crops (Coop. U. S. D. A.).

*†W. R. Langford, Ph. D., Instr. Field Crops.
W. J. Murphy, B. S., Ext. Assoc. Prof. Field Crops.

*†J. M. Poehlman, Ph. D., Prof. Field Crops (Coop. U. S. D. A.).

*†W. Sappenfield, B. S., Asst. Instr. Field Crops

*†W. Sappenfield, B. S., Asst. Instr. Ficia Crops.
†E. R. Sears, Ph. D., Res. Assoc. in Field Crops (Coop. U. S. D. A.).
*†L. J. Stadler, Ph. D., Prof. Field Crops (Coop. U. S. D. A.).
*†Viola Stanway, A. M., Instr. Field Crops; Seed Analyst.
†D. M. Whitt, A. M., Res. Assoc. in Field Crops (Coop. U. S. D. A.).

*Seed Analyst.
*D. M. Whitt, A. M., Res. Assoc. in Field Grops (Coop. U. S. D. A.).
*M. S. Zuber, A. M., Res. Assoc. in Field Grops (Coop. U. S. D. A.).

Forestry:

*†R. H. Westveld, Ph. D., Prof. and Chair. of

*†R. H. Westveld, Ph. D., Prof. and Chair. of Dept.

*†Paul Burns, Ph. D., Asst. Prof. For.
††F. B. Clark, B. S., Res. Assoc. in For.
(Coop. U. S. D. A.).

*†K. C. Compton, M. S., Asst. Prof. For.

*†R. W. Dingle, M. F., Instr. For.

*†P. W. Fletcher, Ph. D., Assoc. Prof. For.

*†Ross Hortin, M. F., Instr. For.

†F. G. Liming, Ph. D., Res. Assoc. in For.
(Coop. U. S. D. A.).

†S. C. Martin, M. S., Res. Assoc. in For.
(Coop. U. S. D. A.).

‡L. E. McCormick, B. S., Ext. Assoc. Prof.

*For.

**I. M. Nichols. B. S., Instr. For.

**I. M. Nichols. B. S., Instr. For.

*†R. B. Polk, M. S., Instr. For.

*†R. B. Polk, M. S., Instr. For.

*†R. C. Smith, D. For., Assoc. Prof. For.

Home Economics:

*†Starley M. Hunter, Ph. D., Prof. and Chair. of Dept.

Home Economics-Continued

†Alice M. Alexander, A. B., Ewt. Asst. Prof. Home Econ. (Home Mgt.). *Helen S. Allen, M. S., Asst. Prof. Home

Econ. *Mary L. Allen, B. S., Instr. Home Econ. ; Helen M. Barnard, B. S., Ext. Asst. Prof. Home Econ. (Clothing). ; Catherine Brent, B. S., Ext. Asst. Prof. Home Econ. (Mktg.). *Margaret Britton, M. S., Instr. Home

Econ.

Econ. ‡Flora L. Carl, M. A., Ext. Assoc. Prof. Home Econ. (Nutr.). *Ethel R. Cutler, M. A., Asst. Prof. Home

*Ethel R. Cutler, M. A., Asst. Prof. Home Econ.

thartha Dunlap, M. A., Ext. Asst. Prof. Home Econ. (Clothing).

Merna D. Fisher, A. M., Instr. Home Econ.

thadonna Fitzgerald, M. A., Ext. Assoc. Prof. Home Econ. (Home Mgt.).

Josephine Flory, M. A., Ext. Asst. Prof. Home Econ. (Nutr.).

Conie Foote, M. A., Ext. Assoc. Prof. Home Econ. (Mktg.).

*Sina F. Fowler, M. S., Asst. Prof. Home Econ.

Econ. *†Adella E. Ginter, M. S., Assoc. Prof. Home

*†Orrine Gregory, M. S., Asst. Prof. Home

Econ.

*†Inez M. Harrill, M. S., Instr. Home Econ. †Helen K. Hunter, B. S., Ext. Asst. Prof. Home Econ. (Home Mgt.). *Jean Huston, M. S., Instr. Home Econ. *Dorothy Lewis, M. Ed., Asst. Prof. Home

Econ. *†Leta Maharg, M. S., Asst. Prof. Home

Econ. *Margaret W. Mangel, M. S., Prof. Home Econ.

*Marion E. Midforth, M. S., Instr. Home

Econ. *Marita Monroe, M. S., Assoc. Prof. Home

*Econ.
*Louise Nunnelley, M. S., Instr. Home Econ.
‡Julian M. Rocheford, Pe. P., Ext. Asst.
Prof. Home Econ. (Home Mgt.).
*Frieda A. Sloop, M. S., Asst. Prof. Home

Econ. *Shirley F. Titus, B. S., Asst. Instr. Home

Econ *†§Adella E. Weis, Ph. D., Assoc. Prof. Home

Econ. ‡Louise Woodruff, A. M., Ext. Assoc. Prof. Home Econ.

Horticulture:

*†‡R. A. Schroeder, Ph. D., Prof. and Chair. of Dept.
†H. W. Ballou, B. S., Res. Asst. in Hort. †C. R. Cunningham, B. S., Ext. Assoc. Prof. Hort.

*†D. D. Hemphill, Ph. D., Asst. Prof. Hort. *†A. D. Hibbard, Ph. D., Assoc. Prof. Hort. *†V. N. Lambeth, Ph. D., Asst. Prof. Hort. ‡W. R. Martin, Jr., B. S., Ext. Assoc. Prof.

*H. E. Mosher, B. L. A., Instr. Hort.

*†A. E. Murneck, Ph. D., Prof. Hort.

*†J. E. Smith, Jr., M. S., Assoc. Prof. Flor.

*†H. G. Swartwout, M. A., Assoc. Prof. Hort.

†F. G. Teubner, M. S., Res. Asst. in Hort.

Poultry Husbandry:

*†H. L. Kempster, M. S., Prof. and Chair. of Dept.

*†H. V. Biellier, B. S., Instr. Poultry Husb. *†J. F. Forward, A. M., Instr. Poultry Husb. †E. M. Funk, A. M., Prof. Poultry Husb. ‡T. L. Joule, M. A., Ext. Asst. Prof. Poultry

B. Kinder, A. M., Assoc. Prof. Poultry

 $\overline{H}usb.$ B. Winner, B. S., Ext. Prof. Poultry Husb.

Sociology (Rural):

*†C. E. Lively, Ph. D., Prof. and Chair. of

- Sociol.
- *†R. L. McNamara, Ph. D., Prof. Rural Sociol.

 †J. B. Mitchell, A. M., Instr. Rural Sociol.
 †I. F. Nye, M. A., Asst. Prof. Rural Sociol.
- Soils:
 - *W. A. Albrecht, Ph. D., Prof. and Chair. of
 - Dept. ‡O. T. Coleman, B. S., Ext. Assoc. Prof.
- †O. T. Coleman, B. S., Ext. Assoc. Prof. Soils.

 *†W. L. Decker, M. S., Asst. Prof. Climat.

 ‡J. W. Falloon, B. S., Ext. Assoc. Prof. Soils.

 *†E. R. Graham, Ph. D., Assoc. Prof. Soils.

 *†H. A. Henley, B. S., Asst. Instr. Soils.

 ‡A. W. Klemme, M. S., Ext. Prof. Soils.

 *†H. H. Krusekopf, A. M., Prof. Soils.

 *†C. E. Marshall, Ph. D., Prof. Soils.

 †D. D. Smith. A. M., Res. Assoc. in Soils.

 †D. D. Smith. A. M., Res. Assoc. in Soils.

 *†G. E. Smith, Ph. D., Assoc. Prof. Soils.

 *†M. E. Springer, B. S., Instr. Soils.

 *†C. M. Woodruff, A. M., Instr. Soils.

Veterinary Medicine:

*†A. H. Groth, D. V. M., Dean of School.

VETERINARY ANATOMY AND HISTOLOGY:

- * J. E. Weinman, D. V. M., Prof. and Chair.
- of Dept. V. Benson, D. V. M., Asst. Prof. Vet. *D.

VETERINARY BACTERIOLOGY:

- *H. C. McDougle, A. M., D. V. M., Prof. and Chair. of Dept.

 *†A. J. Durant, A. M., D. V. M., Prof.

 *†S. C. Benbrook, D. V. M., Instr.

 *G. C. Shelton, D. V. M., Instr.

Veterinary Medicine-Continued

VETERINARY PATHOLOGY:

- *†Cecil Elder, D. V. M., M. S., Prof. and Chair. of Dept.
 *H. H. Berrier, Jr., D. V. M., Asst. Prof. Clinical Path.
- *L. D. Kintner, D. V. M., Instr. *†D. E. Rodabaugh, D. V. M., Assoc. Prof.
- VETERINARY PHYSIOLOGY AND PHARMACOLOGY: *A. W. Uren, D. V. M., M. S., Assoc. Prof. and Chair. of Dept. *B. B. Roseboom, M. S., Prof. Physiol.

VETERINARY MEDICINE AND SURGERY:

- *E. F. Ebert, D. V. M., Prof. and Chair. of Dept., Dir. Vet. Clinics. *

 *A. A. Case, D. V. M., Assoc. Prof.

 *O. S. Crisler, D. V. M., Asst. Prof.

 *H. W. Howell, D. V. M., Asst. Prof.

 *R. B. Moody, D. V. M., Asst. Prof.

Zoology:

- *W. H. Elder, Ph. D., Assoc. Prof. Zool. and Chair. of Dept. *T. S. Baskett, Ph. D., Assoc. Prof. Zool. *R. S. Campbell, Ph. D., Assoc. Prof. Zool. *Marjorie W. Farnsworth, M. A., Instr.
- *Marjorie W. Farnsworth, M. A., I Zool.

 *W. E. Fennel, III, M. A., Instr. Zool.

 *Mary J. Guthrie, Ph. D., Prof. Zool.

 *Daniel Mazia, Ph. D., Prof. Zool.

 *Ruth Neff, M. A., Instr. Zool.

 *C. A. Ripsom, Ph. D., Asst. Prof. Zool.

 *J. R. Shaver, A. B., Asst. Prof. Zool.

Miscellaneous:

- *†J. F. Barham, Photog.

 *†‡R. H. Bezoni, B. S., Auditor.

 *†W. R. Collings, B. L. S., Agr. Libr.

 *†Leslie Cowan, B. S., Secy.

 *†‡Talitha Gisler, A. M., Chief Acct.

 *†H. J. L'Hote, A. M., Admin. Asst., Office of Dean and Dir.

 †B. S. McDaniel, B. S., Supvr. Photog. Service

 - †R. C. Prewitt, B. S., Supvr. Fert. Insp. *†A. W. Purdy, A. M., Admin. Asst., Office of Dean and Dir.

Lincoln University, Jefferson City

*Agricultural faculty.

- *S. D. Scruggs, Ph. D., President.
 *W. B. Jason, A. M., Vice President.
 *E. E. Dawson, Ph. D., Dean.
 *J. N. Freeman, Ph. D., Prof. and Head Dept. of Agr.
- *A. T. Busby, M. S., Asst. Prof. An. Husb.
- and Dairying.

 *C. E. Dickinson, Jr., B. L. A., Ph. D., Assoc. Prof. Hort. and Landsc. Arch.

 *W. W. Dowdy, Ph. D., Prof. Biol.

 *Christine E. Hall, M. S., Asst. Prof. Home
- Econ.
- *R. L. Hurst, M. S., Instr. Agr. Econ. and
- *A. A. Kildare, Ph. D., Prof. Phys.
 *A. A. Kildare, Ph. D., Prof. Phys.
 *A. P. Marshall, B. S. L. S., M. A., Libr.
 *U. S. Maxwell, Ph. D., Prof. Chem.
 *Queem E. Shootes, M. S., Asst. Prof. Home
- Econ.

MONTANA

Montana State College and the Agricultural Experiment Station, Bozeman

- *College faculty. †Statio \$Leave of absence. †Station staff. ‡Extension staff. Military leave.
- *†‡R. R. Renne, Ph. D., Litt. D., President.
 *†Clyde McKee, M. S., Dean of Agr., Dir. of Sta.
 ‡R. B. Tootell, M. S., Dir. of Ext. Service.
 *†‡Bernard Copping, B. S., Secy.-Treas.

Agronomy and Soils:

- *†‡A. H. Post, Ph. D., Prof. and Head of Dept. *†J. A. Asleson, M. S., Assoc. Prof. and Assoc.
 - Agron.
 †W. C. Bourne, M. S., Res. Assoc. in Soils (Soil Survey: Coop. U. S. D. A.).
 ‡B. W. Brink, B. S., Actg. Conserv. Spec.

Agronomy and Soils-Continued

- †D. R. Cawlfield, B. S., Res. Assoc. in Soils (SCS: Coop. U. S. D. A.),

 †D. J. Davis, B. S., Assoc. Prof. and Supt. Grain Insp. Lab.

 †R. F. Eslick, M. S., Assoc. Prof. and Assoc.
- Agron.

Agronomy and Soils—Continued

*†L. F. Gieseker, M. S., Prof. Soils; Res. Agron. in charge Soil Survey.

*‡\$M. P. Hansmeier, B. S., Soil Conserv. Spec.

*†G. P. Hartman, B. S., Instr. and Asst. in Soils.

*†E. R. Hehn, Ph. D., Assoc. Prof. and Assoc.

*†E. R. Hehn, Ph. D., Account Agron.

*†J. C. Hide, Ph. D., Prof. Soils.

†W. E. Larson, Ph. D., Res. Assoc. in Soils.

†F. H. McNeal, M. S., Asst. Agron. (Coop. U. S. D. A.).

†F. D. Mercer, B. S., Ext. Agron.

*†F. C. Petr, B. S., Instr. and Asst. in Agron.

†R. E. Stitt. Ph. D., Res. Assoc. in Forage Crops (BPISAE: Coop. U. S. D. A.).

*†R. L. Warden, B. S., Asst. in Agron., Ext. Weed Spec. *†‡R. L. Warden Weed Spec.

Animal Industry and Range Management:

*†‡F. S. Willson, M. S., Prof. and Head of

Dept.

*†W. H. Burkitt, Ph. D., Assoc. Prof. and Asst. An. Indus.

*†||J. Butcher, B. S., Instr. and Asst. in An. Indus.

*†James Drummond, B. S., Asst. in Wool Lab.

†A. E. Flower, M. S., Asst. Prof. and Asst. in An. Indus.

‡R. G. Johnson, B. S., Range Spec.

‡E. P. Orcutt, B. S., Senior Livestock Spec.

†G. F. Payne, M. S., Asst. Prof. and Asst. in Range Mgt.

‡F. A. Ralston, B. S., Livestock Spec.

†J. L. Van Horn, M. S., Assoc. Prof. and Assoc. in An. Husb. and Range Mgt.

†D. B. Watt, M. S., Instr. and Asst. in An. Husb. and Range Mgt.

Botany and Bacteriology:

†‡H. E. Morris, M. S., Prof. and Head of Sta. and Ext. Depts. *F. B. Cotner, Ph. D., Head of Coll. Dept., Dean Div. of Sci. *†M. M. Afanasiev, Ph. D., Prof. Bot. and

Bact.

*Bernice Bayliss, B. S., Instr. Bot. and

Bact.
E. Booth, Ph. D., Prof. Bot. and Bact., Curator of Herbarium.
E. Hahn, M. S., Asst. Prof. Bot. and

*B. Bact *R. H. McBee, Ph. D., Assoc. Prof. Bot. and

*W. G. Walter, M. S., Assoc. Prof. Bact. *J. C. Wright, Ph. D., Instr. Bot. and Bact.

*†P. C. Gaines, M. S., Prof. and Head of Dept., Vice Pres. *E. Anacker, Ph. D., Instr. Chem. *Graeme Baker, B. S., Instr. Chem. *L. O. Binder, Jr., Ph. D., Assoc. Prof.

*L. O. Binder, Jr., 1... Chem.

*C. N. Caughlan, Ph. D., Assoc. Prof. Chem.

†E. E. Frahm, Ph. D., Assoc. Prof. Chem.

*C. N. Caughian, Ph. D., Assoc. Proj. C. Res. Res. R. R. S., Instr. Chem.
*K. Goering, Ph. D., Asst. Prof. Chem.
*A. R. Johansson, M. S., Asst. Prof. Chem.
*B. L. Johnson, Ph. D., Prof. Chem.
*†L. H. Johnson, Ph. D., Prof. Chem. Res.
*R. A. Woodriff, Ph. D., Assoc. Prof. Chem.

Dairy Industry:

†‡J. A. Nelson, Ph. D., Prof. and Head of Dept., Dean Grad. Div.

†‡J. L. Brence, M. S., Asst. Prof. Dairy Indus.; Dairy Mfg.

†‡E. A. Keyes, Ph. D., Prof. Dairy Indus.; Dairy Prod.

†‡E. P. Smith, M. S., Instr. Dairy Indus.

‡J. O. Tretsven, M. S., Dairy Spec.

Economics (Agr.) and Sociology:

*†‡M. M. Kelso, Ph. D., Prof. and Head of Dept.

Economics (Agr.) and Sociology-Continued

*†C. B. Baker, B. S., Asst. Prof. and Asst.

*TC. B. Baker, B. S., Asst. 170j. and Asst. Agr. Econ.

‡B. L. Brooks, M. S., Ext. Mktg. Spec.

†C. B. Brotherton, M. S., Asst. Prof. and Asst. Agr. Econ.

†J. R. Gray, M. S., Agr. Econ. (Coop. U. S. D. A.).

†H. C. Holje, M. S., Instr. and Asst. in Agr.

Econ.

*†R. E. Huffman, M. S., Assoc. Prof. and Assoc. Agr. Econ.

*†C. F. Kraenzel, Ph. D., Prof. Rural Sociol.; Rural Sociol.

Rural Sociol.

†D. C. Myrick, B. S., Agr. Econ. (Coop. U. S. D. A.).

†C. E. Stewart, M. S., Agr. Econ. (Coop. U. S. D. A.).

‡§H. R. Stucky, M. S., Ext. Agr. Econ.

*M. C. Taylor, Assoc. Prof. Agr. Econ.

*§L. S. Thompson, M. S., Assoc. Prof. and Assoc. Agr. Econ.

*J. W. Van Winkle, M. S., Assoc. Prof. Econ. and Sociol.

*†E. H. Ward, B. S., Asst. Prof. and Asst. Agr. Econ. and Rural Sociol.

*†Mrs. Agnes B. Wiggenhorn, M. S., Instr. and Res. Asst. in Agr. Econ.

*†E. A. Willson, M. S., Assoc. Prof. and Assoc. Agr. Econ. Rural Sociol.

Editorial-See Publications.

Education (Agr.):

*L. L. Knuti, Ed. D., Prof. and Head of Dept.

*H. E. Rodeberg, M. S., Assoc. Prof. Egr. Ed.

Engineering (Agr.):

Engineering (Agr.):

*†‡O. W. Monson, M. S., Prof. and Head of Dept.; Met.

*C. R. Anthony, B. S., Instr. Agr. Engin.

†A. R. Codd, M. S., Hydraulic Engin. (SCS: Coop. U. S. D. A.).

*S. J. Cox., Asst. Prof. Agr. Engin.

†H. L. Dusenberry, B. S., Ext. Irrig. Spec.

*R. Kenck, B. S., Asst. Prof. Agr. Engin.

*†H. M. Skinner, B. S., Assoc. Prof. and Assoc. in Agr. Engin.

*W. J. Sutter, B. S., Asst. Prof. Agr. Engin.

†Engin. ‡E. B.

Entomology-See Zoology and Entomology.

Extension Administration:

‡R. B. Tootell, M. S., *Dir.* ‡N. E. Beers, B. S., *Asst. Dir.* ‡Janice Fenske, B. S., *Asst. State Club* Leader.

\$ Margaret F. Kohl, B. S., Asst. State Club

Leader. McClelland, M. S., State Home Dem. Leader.

‡Pessie E. McClelland, M. S., State Home Dem. Leader.

‡P. J. Moore, B. S., State Club Leader.

‡G. W. Gustafson, B. S., County Agt. Supvr.

‡Geraldine G. Fenn, B. S., Asst. State Club

*t§T. B. Holker, B. S., Admin. Asst. ‡W. G. Stucky, B. S., County Agt. Supvr.

Home Economics:

*†‡Katharine Roy, Ph. D., Prof. Home Econ., Dean of Household and Indus. Arts. *Elizabeth M. Birong, M. S., Assoc. Prof. Home Econ. *Bertha C. Clow, M. S., Assoc. Prof. Home

Econ.

Econ.

*Mrs. John Echo. M. S., Asst. Prof. Home
Econ., Foods Dir.

†Mae Farris, M. S., Asst. Home Mgt. Spec.

*Charlotte Gies, B. S., Instr. Home Econ.

†SErmina J. Fisher, B. S., Home Mgt. Spec.

†Lora V. Hilyard, A. M., Clothing Spec.

†Gertrude Holt, B. S., Instr. Home Econ.

†Mary E. Loughead, M. S., Ext. Nutr. Spec.

†Mrs. Helen L. Mayfield, M. S., Assoc. Prof.

Home Econ.

Home Economics-Continued

*†Mrs. Evelyn McCormick, M. S., Asst. Prof.

*†Laura M. Odland, Ph. D., Assoc. Prof.

Home Econ.

*Muth Osborn, M. S., Asst. Prof. Home Econ.

*Mrs. Marjorie Paisley, M. S., Asst. Prof.

Home Econ. *Gertrude Roskie, M. S., Assoc. Prof. Home

Econ. *†§Mary V. Zaehringer, M. S., Instr. and Asst. in Home Econ. Res.

Horticulture:

Horticulture:

*†‡F. M. Harrington, M. S., Prof. and Head
of Dept.

*†E. E. Barnard, M. S., Instr. and Asst. in
Hort.
‡E. E. Isaac, B. S., Hort. Spec.

*†V. E. Iverson, Ph. D., Prof. Hort.; Hort.

*†H. N. Metcalf, M. S., Asst. Prof. and
Asst. Hort.

‡L. A. Yaeger, M. S., Asst. Ext. Hort.

Physics:

*A. J. M. Johnson, Ph. D., Head of Dept.
*W. B. Farrand, B. S., Instr. Phys.
*A. R. Jordan, Ph. D., Prof. Phys.
*N. J. Kutzman, M. S., Asst. Prof. Phys.
*Kurt Rothschild, Ph. D., Asst. Prof. Phys.
*R. V. Wiegand, Ph. D., Asst. Prof. Phys.

Poultry Industry:

*†E. R. Halbrook, Ph. D., Prof. and Head of

Dept.
A. F. Beekler, B. S., Exec. Secy. Montana Poultry Improvement Board.

‡Harriette E. Cushman, B. S., Poultry Spec.

Publications:

*†‡L. G. True, B. S., Dir. of Pubs. *‡Mrs. J. Bretz, B. S., Asst. in Home Econ.

Pubs. †Georgia Cole, A. B., Sta. Editor and Libr. *Max Davidson, B. S., Asst. in Pubs. †H. M. White, B. A., Asst. Dir. of Pubs. †R. J. Wilson, B. S., Visual Aids Spec.

Veterinary Science:

*†‡Howard Welch, B. S., D. V. M., Head of Coll. Dept.; Vet. Res.
†E. A. Tunnicliff, D. V. M., M. S., Vet. Path.; Head of Sta. Dept.
†B. D. Firehammer, B. S., Asst. in Vet. †Hadleigh Marsh, B. S., D. V. M., Vet. Path. †Lee Seghetti, M. S., D. V. M., Assoc. Vet.

†L. D. Smith, Ph. D., Assoc. Bact. †K. F. Swingle, Ph. D., Assoc. Prof. and Assoc. Chem.

Zoology and Entomology:

*†‡J. H. Pepper, Ph. D., Prof. and Head of Dept. and State Ent.

*C. J. D. Brown, Ph. D., Prof. Zool. and Ent.

Zoology and Entomology-Continued

*†J. A. Callenbach, Ph. D., Assoc. Prof. and Ent.

*†J. Corkins, B. S., Asst. State Ent.

*†\$C. V. Davis, M. S., Asst. Prof. and Asst.

Zool.

*†E. B. Hastings, M. S., Assoc. Prof. Ent.

*†D. C. Quimby, Ph. D., Asst. Prof. Zool. and

†D. K. Scharff, M. S., Asst. Prof. Zool. and

Ent. †R. E. Schmeideskamp, B. S., Asst. State

Apiarist. *E. Simmons, M. S., Instr. Zool. and Ent. *Harold_Watling, M. S., Asst. Prof. Zool. and Ent.

Grain Inspection Laboratory:

†D. J. Davis, B. S., Supt.

Miscellaneous:

†M. A. Bell, M. S., Asst. Dir. of Sta. *†H. G. Cockrum, B. S., Asst. Dean of Agr. and Asst. to Dir. of Sta. ‡Frances P. Macdonald, R. N., Ext. Health

Spec.

‡O. M. Patten, B. S., Ext. Farm For. (P. O.,

Missoula). ‡Amy Wold, M. A., Family Life Spec.

Branch Stations: 2

Eastern Mont. Branch Sta., P. O., Sidney—
W. B. Nelson, B. S., Supt.
Hort. Branch Sta., P. O., Corvallis—
A. L. Richardson, M. S., Supt.
C. R. Hunt, Ph. D., Asst. Ent.
Huntley Field Sta., P. O., Huntley—
O. A. Lammers, B. S., Supt.
S. N. Brooks, M. S., Asst. in Agron.
D. V. Kopland, B. S., Assoc. Dairy Husb.
A. E. Seamans, B. S., Agron.
J. A. Stocking, B. S., Asst. Dairyman.
Judith Basin Branch Sta., P. O., Mocca-

Judith Basin Branch Sta., P. O., Mocca-R. M. Williams, B. S., Assoc. Agron. and

Supt

Supt.

D. E. Baldridge, B. S., Asst. in Agron.
J. L. Krall, B. S., Asst. Agron.

North Mont. Branch Sta., P. O., Havre—
J. J. Sturm, B. S., Supt.
T. S. Aashiem, B. S., Project Supvr.
(SOS: Coop. U. S. D. A.).
L. O. Baker, M. S., Asst. in Agron.
J. J. Urick, B. S., Asst. in An. Indus.

Northwestern Mont. Branch Sta., P. O.,
Creston— Creston-

Oreston—
W. Roath, M. S., Supt.
S. Range Livestock Expt. Sta., P. O.,
Miles City—
R. Quesenberry, M. S., Senior An.

J. R. Quesenberry, M. S., Senior An. Husb. and Supt. R. E. Hutton, B. S., Assoc. An. Husb. (Swine). Bradford Knapp, Jr., M. S., An. Husb. R. R. Woodward, B. S., Assoc. An Husb.

NEBRASKA

College of Agriculture and the Agricultural Experiment Station of the University of Nebraska Lincoln 1

*College faculty. †Station staff. ‡Extension staff. §Leave of absence.

*R. G. Gustavson, Ph. D., D. Sc., Chancellor of University.

†‡W. V. Lambert, Ph. D., Dean Coll. of Agr., Dir. of Sta., Dir. of Agr. Ext. Service.

†M. L. Baker, D. Sc., Assoc. Dir. of Sta.,

‡H. G. Gould, B. S., Assoc. Dir. of Agr. Ext. Service.

*Ephriam Hixson, Ph. D., Assoc. Dir. of Resident Instr.

*†J. K. Selleck, B. S., Comptroller.

Agronomy:

*†F. D. Keim, Ph. D., Prof. and Chair. of Dept. *Charles Bourg, B. S., Instr. Agron.

Agronomy-Continued

*†Leon Chesnin, Ph. D., Asst. Prof. Agron. *†E. C. Conard, M. S., Assoc. Agron. †August Dreier, M. S., Asst. Agron.

² In cooperation with the U. S. Department of Agriculture.

Agronomy-Continued

*†F. L. Duley, Ph. D., Prof. Agron.; Senior Conserv. (Soil Conserv. Invest.: Coop. U. S. D. A.). †P. L. Ehlers, B. S., Asst. in Agron.

†P. L. Ehlers, B. S., Asst. in Agron.
†Deane Finnerty, M. S., Asst. in Agron.
*†R. L. Fox, M. S., Asst. Agron.
*†E. F. Frolik, Ph. D., Assoc. Prof. and Agron.
‡J. D. Furrer, B. S., Asst. Ext. Agron.
*T. H. Goodding, Ph. D., Prof. Agron.
*†H. O. Graumann, M. S., Agron. (Coop. U. S. D. A.).
‡D. L. Gross, M. S., Ext. Agron.
†D. G. Hanway, M. S., Asst. Prof. Agron.
†Jack King, B. S., Asst. in Agron.
†Jack King, B. S., Asst. in Agron.; in charge Crops Res.

*†T. A. Kiesselbach, Ph. D., Prof. Agron.; in charge Crops Res.

*†J. H. Lonnquist, Ph. D., Assoc. Prof. Agron.

†Glen Lowrey, B. S., Asst. in Agron.

†W. E. Lyness, M. S., Assoc. Agron.

*†R. P. Matelski, Ph. D., Assoc. Prof. Agron.

†T. M. McCalla, Ph. D., Assoc. Soil Bact.

(Coop. U. S. D. A.).

†O. J. McDougal, B. S., Ext. Conserv.

†D. P. McGill, M. S., Asst. in Agron.

†*Mary R. Morris, Ph. D., Assoc. Prof. Agron.

(Cytologist).

*†L. C. Newell, Ph. D., Assoc. Prof. Agron.

(Grass Improvement: Coop. U. S. D. A.).

*R. A. Olson, B. S., Asst. Prof. Agron.

†C. R. Porter, M. S., Asst. Agron.

†L. P. Reitz, Ph. D., Prof. Agron. (Coop. U. S. D. A.).

†L. P. Reitz, Ph. D., Prof. Agron. (Coop. U. S. D. A.).

*†H. F. Rhoades, Ph. D., Prof. Agron.; Agron. (Soils: Coop. U. S. D. A.).

†J. C. Russel, M. S., Agron. (Soil Invest. Coop. U. S. D. A.).

†Warren Sahs, B. S., Asst. in Agron.

*D. A. Sander, M. S., Asst. Prof. Agron. (Crops).

†N. E. Shafer, M. S., Asst. Ext. Agron.

†J. C. Swinbank, B. A., Asst. Ext. Agron. (Sweet Clover Invest.: Coop. U. S. D. A.).

†O. J. Webster, Ph. D., Assc. Agron. (Coop. U. S. D. A.).

†U. S. D. A.).

†M. D. Weldon, Ph. D., Ext. Agron.

†Henry Wolfe, M. S., Asst. Ext. Agron.

Animal Husbandry:

*†W. J. Loeffel, M. S., Prof. and Chair. of Dept.
†C. H. Adams, M. S., Asst. Prof. and Asst. An. Husb.

*†M. A. Alexander, M. S., Prof. An. Husb.; in charge Sheep Invest.
†V. H. Arthaud, B. S., Asst. in An. Husb.; An. Husb.

Husb. *†C. T. Blunn, Ph. D., Assoc. Prof. and Assoc.

An. Husb. i. J. Brinegar, Ph. D., Asst. Prof. An.

*†M. J. Brinegar, Ph. D., Asst. Prof. An. Husb.

†W. W. Derrick, M. S., Assoc. Ext. An. Husb.

*†T. W. Dowe, M. S., Asst. Prof. An. Husb.

*†J. V. Dunlap, M. S., Instr. and Asst. in An. Husb.

†K. C. Fouts, B. S., Ext. An. Husb.

(Coop. U. S. D. A.).

*†John Matsushima, Ph. D., Asst. Prof. An. Husb. Husb.

Husb.

Animal Pathology and Hygiene:

*†Carl Olson, Jr., D. V. M., Ph. D., Prof. and Chair. of Dept.

‡S. W. Alford, D. V. S., Assoc. Ext. An. \$S. W.

†Valentinas Bagdonas, D. V. M., Asst. in An. Path.

†Mrs. Ida C. Blore, M. S., Asst. in An. Path. †R. H. Cook, D. V. M., M. S., Asst. in An. Path.

Animal Pathology and Hygiene-Continued

†Mrs. C. L. Rollins, M. S., Asst. in An. Path. *L. V. Skidmore, B. S., D. V. M., Assoc. Prof.

An. Path. †F. R. Woodring, D. V. M., Assoc. An. Path.

Bacteriology:

*G. L. Peltier, Ph. D., Prof. and Chair. of Dept.

*C. E. Georgi, Ph. D., Asst. Prof. Bact.

*L. F. Lindgren, M. S., Instr. Bact.

Botany:

*W. W. Ray, Ph. D., Prof. and Chair. of Dept.

*C. E. Rosenquist, Ph. D., Assoc. Prof. Agr. Bot.

*J. E. Weaver, Ph. D., Prof. Plant Ecol.

Chemistry:

*†C. W. Ackerson, Ph. D., Prof. and Chair. of

Dept.
*R. C. Abbott, A. M., Assoc. Prof. Chem.
†C. B. Anderson, M. S., Asst. in Agr. Chem.
†R. L. Borchers, Ph. D., Assoc. Prof. Agr. Chem.

†R. L. Gates, M. S., Asst. in Agr. Chem. †B. D. Hites, M. S., Asst. Agr. Chem. *†R. M. Sandstedt, M. S., Prof. Agr. Chem.;

Chemurgy:

†G. M. Severson, Ph. D., Prof. and Chair. of

TG. M. Severson, A. E., L. S., L. S., Dept.
†Albert Hoffman, M. S., Asst. in Agron.
†W. E. Hammond, B. S., Asst. Agr. Econ.
†E. F. Staker, Ph. D., Assoc. Agron.
†Richard Woodward, M. S., Asst. Engin.

Conservation:

*G. E. Condra, Ph. D., Prof. and Chair. of Dept.

*E. C. Reed, M. S., Assoc. Prof. Conserv.

Dairy Husbandry:

Jairy Husbandry:

*†P. L. Kelly, Ph. D., Prof. and Chair. of Dept.

*†H. P. Davis, M. S., Prof. Dairy Husb.; Dairy Husb.

†Philip Cole, M. S., Instr. Dairy Husb.; Lt. K. Crowe, Ph. D., Prof. Dairy Husb.; Dairy Husb.

*†L. K. Crowe, Ph. D., Asst. Prof. and Asst. Ph. D. Deane, Ph. D., Asst. Prof. and Asst. Pairy Husb.; Dairy Husb.; Dairy Husb.; Dairy Husb.;

*†P. A. DOWIS, FH. D., 1707. Dairy Husb.

*†I. L. Hathaway, M. S., Assoc. Prof. and Assoc. Dairy Husb.

‡K. E. Johnson, B. S., Asst. Ext. Econ.,

Dairy Mktg. ‡M. N. Lawritson, B. S., Assoc. Ext. Dairy-

man.

‡C. W. Nibler, M. A., Ext. Dairyman.

†M. M. Plum, Ph. D., Assoc. Prof. and Asst.

*†A. B. Schultze, Ph. D., Assoc. Prof. as Asst. Dairy Husb. †James Yoder, B. S., Instr. Dairy Husb. Ph. D., Assoc. Prof. and

Economics (Agr.):

*†C. C. Mitchell, Ph. D., Prof. and Chair. of Dept.

*Anton Anderson, Ph. B., Assoc. (Coop. U. S. D. A.).

*†N. J. Anderson, M. S., Assoc. Prof. Agr.

‡F. J. Chase, B. S., Asst. Ext. Econ., Farm Mgt.

*†A. W. Epp, Ph. D., Assoc. Prof. Agr. Econ.

*†Burton French, M. S., Asst. Prof. Agr.

Econ.

†A. G. George, M. A., Asst. Agr. Econ. †J. W. Goble, M. A., Ext. Asst. in Econ. Egg. Mktg. †P. A. Henderson, Ph. D., Assoc. Agr. Econ. †L. C. Jackson, B. S., Asst. in Agr. Econ. *†J. P. Johansen, Ph. D., Assoc. Prof. Agr. Econ.

Economics (Agr.)—Continued

‡K. E. Johnson, B. S., Ext. Dairy Mktg.

Spec.

†C. J. Miller, M. S., Asst. Prof. Agr. Econ.

†Howard Ottoson, M. S., Asst. Prof. Agr. Econ.

*†L. B. Snyder, Ph. D., Assoc. Prof. and Assoc. Agr. Econ. *T. S. Thorfinnson, M. S., Assoc. (Coop. U. S. D. A.).

Editorial:

*†R. J. Graham, A. B., Agr. Editor. ‡D. I. Nelson, B. S., Asst. Ext. Editor. ‡A. C. Orr, A. B., Asst. Ext. Editor. ‡G. S. Round, B. S., Ext. Editor.

Education (Voc.):

*C. E. Rhoad, Ph. D., Prof. and Chair. of Dept.

*Florence M. Corbin, M. S., Assoc. Prof.

*H. W. Deems, M. S., Instr. Voc. Ed.
*H. W. Deems, M. S., Instr. Voc. Ed.
*Rhea I. Keeler, M. S., Asst. Prof. Voc. Ed.
*M. G. McCreight, B. S., Instr. Voc. Ed.
*C. C. Minteer, A. M., Assoc. Prof. Voc. Ed.

Engineering (Agr.):

*†L. W. Hurbut, M. S. A. E., Prof. and Chair. of Dept.

*†M. J. Arms, M. S., Instr. Agr. Engin.

*†M. P. Brunig, M. A., B. S. in A. E., Asst. Prof. Agr. Engin.

‡R. L. DeRose, B. S. A. E., Asst. Ext. Engin. (Rural Electrification: Coop. U. S. D. A.).

†F. B. Hamilton, B. S. E., Res. Assoc. (Coop. U. S. D. A.).

U. S. D. A.). ‡Daniel Kitchen, M. S., Asst. Ext. Agr. Engin.

*Enpin.
*L. F. Larsen, M. S. A. E., Assoc. Agr. Engin.
†William Larsen, B. S., Asst. in Agr. Engin.
(Tractor Testing).
*M. G. McCreight, B. S., Instr. Agr. Engin.
‡E. A. Olson, B. S., A. E., Assoc. Ext. Agr. Engin.

*C. A. Olson, B. S., A. E., Accou. But. Ly. Engin.

*C. A. Penton, Asst. in Agr. Engin.

*†G. M. Petersen, B. S. A. E., Asst. Prof.

Agr. Engin.

*†J. F. Schrunk, B. S. A. E., Instr. Agr.

Butia

Engin. W. S

Smith, M. S., M. E., Prof. Agr. Engin

†L. H. Sodderholm, B. S., E. E., Res. Assoc. (Coop. U. S. D. A.)
†Bertrand Somerhalder, B. S. A. E., Asst. in Agr. Engin.
‡J. C. Steele, B. S. M. E., Asst. Ext. Agr. Engin. *†Joseph Sulek, B. S. A. E., Instr. Agr.

Engin. †F. D. Yung, M. S., A. E., Asst. Agr. Engin.

Entomology:

*Tomology:

†R. E. Hill, Ph. D., Assoc. Prof. and Chair.
of Dept.

*O. S. Bare, M. S., Assoc. Prof. Ent.

*†Lawrence Bewick, M. S., Asst. Prof. Ent.
†H. A. Hauke, M. S., Field Suppr. in Ent.
(Grasshopper Control: Coop. U. S. D. A.).

*Robert Helm, M. S., Ext. Asst. in Ent.

*†Ephriam Hixson, Ph. D., Prof. Ent.

‡J. W. Lomax, B. S., Asst. Ext. Ent.

*†M. H. Muma, Ph. D., Assoc. Prof. Ent.
and Curator of Museum.

*†Robert Staples, Ph. D., Asst. Prof. Ent.

Extension Administration:

ctension Administration:

\[\text{W. V. Lambert, Ph. D., Dir.} \]

\[\text{‡H. G. Gould, B. S., Assoc. Dir.} \]

\[\text{‡Florence J. Atwood, M. A., State Home Ext. Leader.} \]

\[\text{‡E. W. Janike, B. S., Boys' and Girls' Club Leader.} \]

\[\text{‡W. M. Antes, B. S., Asst. 4-H Club Leader.} \]

\[\text{‡Helen L. Becker, B. S., Ext. Spec. Health } \]

Extension Administration-Continued

‡H. W. Bett, State Pubs. Distribution Offi-

† H. W. Bett, State Lucs, Estate Lucs, Cer.

† G. R. Davis, M. A., Rural Youth Leader.

† Mrs. Dorothea F. Holstein, B. S., Asst.

Boys' and Girls' Club Leader.

† Elton Lux, M. A., Admin. Asst. to Dir.

† A. H. Maunder, B. S., Supvr. Ext. Pro-

grams

Ethel H. Saxton, M. S., Dist. Supvr. Home

Agts.

W. C. Smith, B. S., Asst. 4-H Club Leader.

J. L. Thomas, B. S., Admin. Secy.

Agnes Arthaud, B. S., Dist. Supvr. Home

AgtstMrs. Nell H. Wright, M. A., Dist. Supvr.

†Mrs. Neil H. Weight, M. A., Low. Home Agts.
†H. E. Huston, B. S., Dist. Supvr.
†C. C. Noyes, B. S., Dist. Supvr.
†R. C. Russell, B. S., Dist. Supvr.
†L. D. Willey, B. S., Dist. Supvr.

Forestry:

‡E. G. Maxwell, A. M., Ext. For.

Home Economics:

*†Doretta M. Schlaphoff, Ph. D., Prof. and Chair. of Dept. ‡Harriet Adams, B. S., Asst. Ext. Home

Econ.

**Econ.

*Mrs. Angeline C. Anderson, M. S., Asst. Prof. Child Development.

†A. E. Baragar, M. S., Assoc. Home Econ., Housing and Equip.

*Josephine E. Brooks, Ph. D., Assoc. Prof. Home Econ. (Food and Nutr.).

†Mrs. Ferne Brown, M. A., Asst. Prof. Home Econ.

**Margaret Cannell, M. A., Instr. Home Econ.

*†K. L. Cannon, M. S., Asst. Prof. Family Relations (Child Development).

†Marilyn Chaloupka, B. S., Tech. in Food and Nutr.

‡Ethel Diedrichsen, M. S., Asst. Ext. Home Econ.

Econ.

†Mary R. Gram, M. S., Asst. Prof. Home Econ. (Food and Nutr.). †Gersilda Guthrie, B. S., Asst. Ext. Home Econ.

Econ.

*Mary E. Guthrie, A. M., Asst. Prof. Textiles and Clothing.

*Mrs. Mary H. Hall, M. A., Asst. Prof. Home Econ. (Textiles and Clothing).

*Marie Harris, M. S., Instr. Home Econ. (Institution Admin.).

*Ruth E. Jones, M. S., Instr. Home Econ. (Food and Nutr.).

†Marilyn Kuhlman, B. S., Tech.

†Mrs. Clara N. Leopold, B. S., Asst. Ext. Econ.

Econ

Econ.
Ruth M. Leyerton, Ph. D., Prof. Nutr. Res.
Evelyn J. Metzger, Asst. Prof. Design and
Home Furnishing.
Amy Mitchell, B. S., Tech.
Ann Renz, M. S., Instr. Home Econ.
Helen A. Rocke, M. A., Assoc. Ext. Home

Econ.

Econ.

*Gladys C. Ruby. A. M., Assoc. Prof. Clothing and Textiles.

*Ruby Ruth, M. S., Instr. Home Mgt.

*Mrs. Lois O. Schwab, M. A., Instr. Home Econ. (Family Econ. and Home Mgt.).

*Florence C. Smith, M. S., Asst. Prof. and Head Institution Admin.

*Muriel L. Smith, B. S., Assoc. Ext. Home Econ. (Home Mgt.).

*Ruth Staples, Ph. D., Assoc. Prof. and Head of Family Life.

*Bess Steele, A. M., Assoc. Prof. and Head of Design and Home Furnishing.

†Mrs. Helen Sulek, M. A., Instr. Home Econ.

Econ.

*†Mrs. Virginia Trotter, M. S., Asst. Prof. Home Econ. *Jessie A. Warden, M. A., Instr. Home Econ. (Textiles and Olothing). ‡Allegra E. Wilkins, Asst. Ext. Spec. Clothing.

Horticulture:

*†C. C. Wiggans, Ph. D., Prof. and Chair.
of Dept.
*†V. J. Miller, Ph. D., Asst. Prof. Hort.
†R. B. O'Keefe, B. S., Asst. in Hort.
†George Stachwick, M. S., Asst. Hort.
†H. O. Werner, Ph. D., Prof. Hort.; Hort.
†W. C. Whitney, B. S., Assoc. Ext. Hort.
†P. K. Yagyu, B. S., Asst. in Hort.

Plant Pathology:

*†W. B. Allington, Ph. D., Prof. and Chair.

of Dept.
W. Goss. Ph. D., Prof. and Dean of Grad. Coll.

*†J. E. Livingston, Ph. D., Assoc. Prof. and Assoc. Plant Path.

*†W. W. Ray, Ph. D., Prof. Bot.; Mycol.

*†M. L. Schuster, Ph. D., Instr. and Asst. Plant Path. Weihing, M. S., Ext. Asst. in Plant

 \overline{Path} . †M. E. Yount, B. S., Res. Assoc. (Coop. U. S. D. A.).

Poultry Husbandry:

*†F. E. Mussehl, B. S., Prof. and Chair. of Dept.

†W. F. Aubol, B. S., Asst. Ext. Poultry Husb.

tJ. H. Claybaugh, B. S., Assoc. Ext. Poultry

Husb.
*Howard Wiegers, B. S., Instr. Poultry Husb.

Poultry Husbandry-Continued

*†I. L. Williams, A. M., Asst. Prof. and Asst. Poultry Husb.

Miscellaneous:

*†J. R. Blanchard, B. S. in L. S., Libr. *†Mrs. Ruth M. Salmons, B. S. in L. S., Asst. Libr.

Substations:

M. L. Baker, M. S., in charge. Beef Cattle Res. Sta., P. O., Fort Robin-

R. L. Davis, M. S., Supt.

North Platte Substa., P. O., North Platte—
J. C. Adams, B. S., Supt.
G. N. Baker, B. S., An Husb. (Coop.
U. S. D. A.).
M. J. Greenwood, B. S., Asst. Agron.
R. E. Ramig, M. S., Asst. in Agron.
(Soils).

R. E. (Soils). Rur

M. G. Rumery, B. S., Asst. Dairy Husb. Glenn Viehmeyer, Asst. in Hort. Scottsbluff Substa., P. O., Mitchell—Lionel Harris, M. S., Asst. Agron. and

Lionel Hafris, M. S., Asst. Ayron. wave Supt.
O. W. Howe, B. S., Asst. Agr. Engin.
F. V. Pumphrey, M. S., Asst. Agron.
Valentine Substa., P. O., Valentine—
E. M. Brouse, B. S., Supt.
Box Butte Expt. Farm, P. O., Alliance—
H. W. Chapman, M. S., Supvr.
Union Fruit Farms, P. O., Union—
R. A. Manes Mar.

R. A. Mapes, Mgr.

NEVADA

College of Agriculture and the Agricultural Experiment Station of the University of Nevada, Reno

*College faculty. †Station staff. ‡Extension staff.

*†‡M. A. Love, Ph. D., President of University.

‡C. W. Creel, B. S., D. Agr., Dir. of Agr. Ext.

†C. E. Fleming, B. S. A., Dir. of Sta.

*E. E. Wittwer, Ph. D., Dir. of Resident Instr.

*†‡P. W. Hayden, B. A., Comptroller.

Agronomy:

*L. E. Dunn, Ph. D., Prof. and Chair. of

Dept.
*J. H. Robertson, Ph. D., Assoc. Prof.
Range Mgt. and Agron.
†Oliver Smith, Ph. D., Path.
†J. A. McCormick, B. S., Chief in Farm De-

velopment.

Animal Husbandry:

*E. W. Sheets, M. S., D. Agr., Prof. and Chair. of Dept.

*C. A. Adams, Jr., M. S., Asst. Prof. An. Husb.

‡A. J. Reed, B. S., An. Husb.

*LeGrand Walker, B. S., Foreman of Univ. Farms.

Biology:

*W. D. Billings, Ph. D., Assoc. Prof. Bot. and Chair. of Dept.

*D. H. Hall, M. S., Instr. Biol.

*L. L. Jones, Ph. D., Lect. in Biol.

*Tra LaRivers, Ph. D., Asst. Prof. Biol.

*T. M. Little, Ph. D., Asst. Prof. Biol.

*Frank Richardson, Ph. D., Assoc. Prof. Biol.

Biol.

Chemistry:

*M. W. Deming, Ph. D., Prof. and Chair. of *M. W. Demilig, Ph. D., 1107, who Dept.

†M. R. Miller, M. S., Res. Agr. Chem.

*J. L. Henry, Ph. D., Instr. Biol.

*J. E. Moose, Ph. D., Prof. Chem.

*R. J. Morris, Ph. D., Asst. Prof. Chem.

*H. J. Seim, Ph. D., Instr. Chem.

*L. R. Williams, Ph. D., Assoc. Prof. Chem.

Economics (Agr.):

*E. E. Wittwer, Ph. D., Prof. and Chair of

Dept.
†Mabel Hartley, B. A., Asst. Agr. Econ.
†H. G. Mason, B. S., Agr. Econ.
*N. K. Roberts, M. S., Asst. Prof.

Engineering (Agr. and Irrig.):

*Louis Titus, M. S., Prof. Farm Mech. †Clyde Houston, B. S., Irrig. Engin.

Extension Administration:

‡C. W. Creel, B. S., D. Agr., Dir. ‡T. E. Buckman, M. S., Asst. Dir. for County

Agt. Work.

†Margaret M. Griffin, B. S., Asst. Dir. for
Home Dem. Work.

†P. L. Maloney, B. S., Asst. Dir. for Junior

Ext. Work.

Forestry:

‡D. M. Drummond, M. S., Ext. For.

Home Economics:

*Mildred L. Swift, M. S., Prof. and Chair. School of Home Econ. *Mrs. Alice B. Marsh, M. S., Asst. Prof. *Jessie P. Pope, M. A., Assoc. Prof. *Virginia Carroll, M. A., Lect. in Home

Econ.

Horticulture:

†R. K. Petersen, M. S., Hort. *T. M. Little, Ph. D., Asst. Prof.

Physics:

*S. W. Leifson, Ph. D., Prof. and Chair. of Dept.

Physics-Continued

*J. M. Hansen, Ph. D., Asst. Prof. Phys. *Frank Inman, B. S., Instr. Phys. *R. E. Worley, Ph. D., Asst. Prof. Phys.

Range Management:

†Mark Shipley, B. S., Chief in Range Mgt. *J. H. Robertson, Ph. D., Assoc. Prof. Range Mgt. and Agron.

Soils:

*L. E. Dunn, Ph. D., Assoc. Prof. Soils. †V. E. Spencer, M. S., Chief in Soils Res.

Soils-Continued

†Michael Galli, B. S., Asst. in Soils Res. †W. A. Goodale, B. S., Asst. in Soils Res. †O. R. Schulz, B. S., Soil Conserv.

Veterinary Science:

†Edward Records, V. M. D., Vet. †L. R. Vawter, D. V. M., M. S., Assoc. in Vet Sci.

Miscellaneous:

†Agnes L. Schmith, Admin, Secu. and Libr.

NEW HAMPSHIRE

College of Agriculture and the Agricultural Experiment Station of the University of New Hampshire, Durham

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence.

*R. F. Chandler, Jr., Ph. D., President.

†H. C. Grinnell, Ph. D., Dean Coll. of Agr., Dir. of Sta.

‡L. A. Bevan, B. S., Dir. of Agr. Ext. Service.

†‡R. C. Magrath, Treas.

Agronomy:

*†F. S. Prince, B. S., Prof. Agron.; Agron.
†‡P. T. Blood, M. S., Asst. Prof. and Asst.
Agron., Asst. Ext. Agron.
*†Reeshon Feuer, B. S., Asst. Prof. and Asst.
in Soil Survey.
*†L. J. Higgins, B. S., Assoc. Prof. and
Assoc. Agron.

Assoc. Agron.
T. Kardos, Ph. D., Assoc. Prof. and *†L. Assoc. Agron. B. Littlefield, B. S.,

†R. B. Littlefield, B. S., Asst. Prof., Ext. Agron., and County Agt. Leader. †W. H. Lyford, M. S., Soil Surveyor. †Betty G. Sanborn, Seed Analyst.

Animal Husbandry:

*‡L. V. Tirrell, M. S., Prof. An. Husb. *Donald Kinsman, B. S., Instr. An. Husb.

Applied Farming:

*P. S. Barton, M. Ed., Prof. Applied Farm-

*P. S. Batton, M. Lin, 1997.

*P. A. Gilman, B. S., Asst. Prof. Applied Farming.

*R. H. Granger, M. S., Asst. Prof. Applied

Farming.
*Charles Jack, B. S., Instr. Applied Farm-

*Charles Jack, B. S., Instr. Approved ing.

*R. C. Kennedy, B. S., Asst. Prof. Applied Farming.

*E. C. Perry, B. S., Instr. Agr.

*H. F. Presby, B. S., Instr. Agr.

*P. M. Raynes, B. S., Instr. Agr.

*§G. L. Smith, B. S., Instr. Applied Farming.

Bacteriology:

*L. W. Slanetz, Ph. D., Prof. Bact.; Bact. *Mrs. Clara H. Bartley, Ph. D., Asst. Prof. Bact.

* A. F. Howe, Ph. D., Asst. Prof. and Asst. Bact.

*†Agnes T. Richardson, B. S., Lab. Asst.

Botany:

*†A. R. Hodgdon, Ph. D., Prof. Bot.; Plant Taxonomist.

*†S. J. Dunn, Ph. D., Assoc. Prof. Bot.; Plant

*†S. J. Dunn, Ph. D., Assoc. Froj. Bot., Physiol.

*Marian E. Mills, M. A., Asst. Prof. Bot.; Plant Oytologist.

*†Shar Oytologist.

*†\$M. C. Richards, Ph. D., Prof. Bot.; Plant Path.

Chemistry (Agr. and Biol.):

*†T. G. Phillips, Ph. D., Prof. Agr. and Biol.

Chem.; Chem.
A. Davis, M. C., Asst. Prof. Agr. and Biol. Chem.; Asst. Chem. †H.

Chemistry (Agr. and Biol.) - Continued

† Dorothy Josselyn, Asst. in Agr. and Biol. Chem.

*†Margaret E. Loughlin, A. B., Asst. in Agr. and Biol. Chem.
†G. P. Percival, M. S., Assoc. Prof. Agr. and Biol. Chem., Assoc. Chem.
*†Helen J. Purinton, Ph. D., Assoc. Prof. and

*†Helen J. Purinton, Fn. D., Assoc. Troj. and Assoc. Chem. *†S. R. Shimer, M. S., Assoc. Prof. Agr. and Biol. Chem.; Assoc. Chem. *†A. E. Teeri, Ph. D., Assoc. Prof. Agr. and Biol. Chem.; Assoc. Chem.

Dairy Husbandry:

*†K. S. Morrow, M. S., Prof. Dairy Husb.;

Dairy Husb. ‡C. H. Boynton, M. S., Assoc. Prof. and Ext.

‡C. H. Boynton, M. S., Assoc. Proj. and Base. Dairyman.
†N. F. Colovos, M. S., Asst. Prof. and Assoc. An. Nutr.
*†H. A. Keener, Ph. D., Prof. Dairy Husb.; Dairy Husb.
†A. D. Littlehale, Herdsman.
*†H. C. Moore, M. S., Assoc. Prof. and Assoc. Dairy Hush.

Dairy Husb. ‡G. B. Olsson, B. S., Asst. Ext. Dairyman.

Economics (Agr.):

*†H. C. Woodworth, M. S., Prof. Agr. Econ.;
Agr. Econ.

†M. F. Abell, Ph. D., Asst. Prof. Agr. Econ.,
Ext. Econ. and Farm Mgt.

*†J. R. Bowring, Ph. D., Assoc. Prof. and
Assoc. Agr. Econ.

**W. Puribatt Ph. D. Assoc. Prof. and

*†J. R. Bowring, Fu. D., Assoc. 1707. and Assoc. Agr. Econ.

*†W. K. Burkett, Ph. D., Assoc. Prof. and Assoc. Agr. Econ.

†‡L. A. Dougherty, B. S., Asst. Prof. and Econ. in Mktg.

*H. C. Grinnell, Ph. D., Prof. Agr. Econ.

†J. C. Holmes, A. B., S. B., Res. Asst. in Agr. Econ.

Agr. Econ. ‡R. E. Underwood, B. S., Asst. Ext. Mktg.

Spec. ‡N. F. Whippen, B. S., Asst. Ext. Mktg.

Editorial:

*†‡F. E. Robinson, M. A., Dir. Public Information. ‡H. W. Adams, B. S., Agr. Editor. *†‡Ella S. Bowles, Pubs. Editor.

Engineering (Agr.):

†H. N. Colby, B. S., Asst. Prof. and Ext. Agr. Engin. *†A. G. Fox, Jr., B. S. A. E., Instr. and Asst. Agr. Engin. *†B. P. Rines, B. S. A. E., E. E., Asst. Prof. and Assoc. Agr. Engin.

Entomology:

- *†J. G. Conklin, Ph. D., Prof. Econ. Ent.; Ent. (State Nursery Insp.). *†R. L. Blickle, Ph. D., Assoc. Prof. and Assoc. Ent. †W. J. Morse, B. S., Res. Chem., Asst. in
- Ent.

Extension Administration:

- tl. A. Bevan, B. S., Dir.

 ‡S. W. Hoitt, M. S., Asst. Dir.

 ‡Beatrice A. Judkins, B. E., State Home
 Dem. Leader.

 ‡C. B. Wadleigh, B. S., State Club Leader.

 ‡Helen A. Bjorklund, B. S., Asst. State Club Leader.

Forestry:

- *†C. L. Stevens, M. F., Ph. D., Prof. For.;

 For.

 \$K. E. Barraclough, B. S., M. F., Asst. Prof.
 and Eat. For.

 *Howard Kriebel, M. F., Instr. For.

 *C. M. Matthews, B. S., Asst. Prof. For.

 *†L. C. Swain, B. S., M. F., Assoc. Prof. and Assoc. For.

Home Economics:

- *Mrs. Helen F. McLaughlin, M. A., Prof. .
- Home Econ.
- Home Econ.

 ‡Ann F. Beggs, B. S., Asst. Prof. Home
 Econ., Ext. Econ. (Home Mgt.).

 ‡Elizabeth E. Ellis, M. A., Asst. Prof. Home
 Econ., Ext. Nutr.

 *Alice P. Foster, M. Ed., Instr. Home Econ.

 †Frances E. Platts, M. Ed., Asst. Prof. and
 Res. Asst. Home Econ.

 *M. Elizabeth Rand, M. Ed., Asst. Prof.
 Home Econ.
- *Sara Thames, M. A., Asst. Prof. Home Econ.

Horticulture:

- *†A. F. Yeager, Ph. D., Prof. Hort.; Hort. †M. A. Eastman, Ph. D., Res. Asst. Hort. *†Russell Eggert, M. S., Assoc. Prof. and Supt. Hort. Farm. *‡J. R. Hepler, M. S., Assoc. Prof. and Ext. Hort. (Home Gard.). *†L. P. Latimer, Ph. D., Assoc. Prof. and Assoc. Hort.
- - Assoc. Hort. †E. M. Meader, M. S., Assoc. Prof. and Assoc. Hort.

- ### Hort.

 ‡E. J. Rasmussen, M. S., 1...

 #†E. B. Risley, B. S., Instr. Hort. and Greenhouse Supt.

 *†\text{W}. W. Smith, Ph. D., Assoc. Prof. and Assoc. Hort.

- *†R. C. Ringrose, Ph. D., Assoc. Prof. and Assoc. Poultry Husb., Actg. Chair. of

- Assoc. Poultry Husb., Actg. Chair. of Dept.

 *†F. E. Allen, B. S., D. V. M., Assoc. Prof. Vet. Sci.; Vet.
 †E. T. Bardwell, B. S., R. O. P. Supvr.

 *†A. C. Corbett, D. V. M., M. S., Asst. Prof. and Poultry Path.
 †D. A. Cross, Senior Lab. Tech.
 †W. R. Dunlop, Ph. D., Asst. Poultry Path.
 †R. Ford, Supervising Tech. in Poultry Lab.
 †Virginia LaChance, Lab. Tech.
 †Katherine Moore, Asst. Lab. Tech.
 ‡Richard Warren, M. S., Asst. Prof. and Ext. Poultry Husb.
 †C. F. Zoerb, Poultry Insp.

Miscellaneous:

- *†Thelma Brackett, A. B., Libr. *†Margaret M. Badger, B. S., Instr. Phys. Ed. for Women, Ext. Spec. in Recreation. *†W. T. Harwood, Libr. Asst.

NEW JERSEY

State College of Agriculture and Mechanic Arts and the Agricultural Experiment Station of Rutgers University (the State University of New Jersey), and the State Agricultural Experiment Station, New Brunswick

*College faculty. †Station staff. ‡Extension staff.

- *R. C. Clothier, I.L. D., D. L., President of University.

 *†‡W. H. Martin, Ph. D., D. Sc., Dean of Coll. of Agr., Dir. of Sta., Dir. of Ext.

 Service in Agr. and Home Econ.

 ‡L. G. Cook, B. S., Assoc. Dir. of Ext. Service in Agr. and Home Econ.

 *F. G. Helyar, B. S., Litt. D., Dir. of Resident Instr.

 *†A. S. Johnson, A. B., Comptroller and Treas.

Animal Husbandry:

- *F. G. Helyar, B. S., Litt. D., Prof. An. Husb.
- ‡P. M. Grinde, B. S., Ext. Assoc. in An. Husb.
 *G. W. Van Der Noot, B. S., Asst. Prof. An. Husb.

Biochemistry (Agr.):

- *†W. C. Russell, Ph. D., D. Sc., Prof. and Res. Spec. in Agr. Biochem. †M. J. Babcock, Ph. D., Assoc. Res. Spec. in
- Agr. Biochem.
 †Katharine A. Bouton, B. S., Lab. Tech. in
 Agr. Biochem.
 †Sarah L. DeVries, B. S., Res. Asst. in Agr.
- Biochem. *H. J. Metzger, D. V. M., Assoc. Prof. Agr.
- Biochem.
 . W. Taylor, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Agr. Biochem.

Chemistry:

- †S. B. Randle, Ph. D., Res. Spec. in Chem.
- (State Chem.).
 †T. G. Bowery, M. S., Res. Assoc. in Chem.
 †L. J. Faneuf, B. S., Res. Assoc. in Chem.
 †Kenneth Helrich, M. S., Res. Assoc. in Chem.

Chemistry-Continued

†A. C. Wark. Res. Assoc. in Chem. †R. L. Willis, B. S., Asst. Res. Spec. in Chem.

Dairy Husbandry and Manufactures:

- *†J. W. Bartlett, Ph. D., Prof. and Res. Spec. in Dairy Husb. *†C. B. Bender, M. S., Prof. and Res. Spec. in Dairy Husb. *†Claude Eby, B. S., Assoc. Prof. and Assoc. Res. Spec. in Dairy Husb. (P. O., Sussex)

- *Sex).

 *J. B. Kitchen, Jr., M. S., Asst. Prof. and Asst. Res. Spec. in Dairy Husb.

 *†S. A. Lear, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Dairy Mfrs.

 *†J. G. Leeder, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Dairy Mfrs.

 *†R. E. Mather, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Dairy Husb. (P. O., Sussex).
 - Sussex)
- **Sussew).

 †H. J. Metzger, D. V. M., Assoc. Res. Spec. in Dairy Path.

 *†J. P. Mixner, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Dairy Husb. (P. O., Sussex).
- Perry, A. M., Ext. Spec. in Dairy ‡E. J. P.

Dairy Husbandry and Manufactures-Continued *†K. O. Pfau, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Dairy Husb. (P. O., Sus-

*†R. P. Reece, Ph. D., Prof. and Res. Spec. in Dairy Husb.
†C. G. Wettstein, M. S., Res. Assoc. in Dairy Husb. (P. O., Sussex).
†S. J. Wright, B. S., Res. Assoc. in Dairy Husb.

Economics (Agr.):

*†A. G. Waller, M. S., Prof. and Res. Spec. in

Agr. Econ.

*Henry Keller, Jr., Ph. D., Prof. Agr. Econ.

‡F. V. Beck, Ph. D., Ext. Spec. in Agr. Econ.

†J. W. Carneross, M. S., Assoc. Res. Spec. in

Agr. Econ. †‡J. F. Hauck, M. S., Res. and Ext. Spec. in

†‡J. F. Hauck, M. S., Asst. Prof. and Asst. *†G. W. Luke, M. S., Asst. Prof. and Asst. Res. Spec. in Agr. Econ.

Editorial:

*†\$S. H. Reck, Jr., B. S., Spec. in Agr. Information.

mation.
†Mrs. Herminie B. Kitchen, M. A., Assoc.
Spec. in Agr. Information.
†Mrs. Virginia K. Rathmell, B. Sc., Ext.
Assoc. in Agr. Information.
†Dorothy V. Smith, Asst. Spec. in Agr. In-

formation. ‡S. C. Stabe, Asst. Spec. in Agr. Informa-

tion. ‡H. R. Stanton, Assoc. Spec. in Agr. Information.

Education (Agr.):

*O. E. Kiser, M. S., Prof. Agr. Ed. *W. H. Evans, M. Ed., Asst. Prof. A *H. E. Wright, B. S., Instr. Agr. Ed. Agr. Ed.

Engineering (Agr.):

*H. E. Besley, M. S., Prof. Agr. Engin. †E. D. Baker, B. S., Res. Assoc. in Agr. Engin.

Engin.

†R. S. Claycomb, B. S., Asst. Res. Spec. in Agr. Engin. (Coop. U. S. D. A.).

†B. C. Haynes, Jr., M. S., Asst. Res. Spec. in Agr. Engin. (Coop. U. S. D. A.).

‡W. C. Krueger, B. S., Ext. Spec. in Agr. Engin.

*C. H. Reed, M. S., Asst. Prof. Agr. Engin.

*M. E. Singley, M. S., Asst. Prof. Agr. Engin.

*†B. B. Pepper, Ph. D., Prof. and Res. Spec. in Ent.

*†B. F. Driggers, Ph. D., Prof. and Res. Spec. in Ent.

*†R. S. Filmer, M. S., Assoc. Prof. and Assoc. Res. Spec. in Ent.

*†J. M. Ginsburg, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Ent.

†Phillip Granett, Ph. D., Assoc. Res. Spec. in Ent.

in Ent.
†L. E. Hagmann, Ph. D.
in Ent.
*†C. C. Hamilton, Ph. D. Hagmann, Ph. D., Asst. Res. Spec.

Assoc. Prof. and

Assoc. Res. Spec. in Ent.

*†E. J. Hansens, Ph. D., Assoc. Prof. and
Assoc. Res. Spec. in Ent.

†D. M. Jobbins, M. S., Assoc. Res. Spec. in Ent.

†J. P. Reed, B. S., Res. Assoc. in Ent. †Curtis Richardson, M. S., Res. Assoc. in

Ent.
*†J. B. Schmitt, Ph. D., Assoc. Prof. and
Assoc. Res. Spec. in Ent.
‡Ordway Starnes, Ph. D., Assoc. Ext. Spec. in Ent.

Extension Administration:

tw. H. Martin, Ph. D., D. Sc., Dir. tl. G. Cook, B. S., Assoc. Dir. tMarion Butters, Home Econ. Leader. tJ. B. Fawcett, B. S., Leader of Ext. Agents.

Extension Administration-Continued

Dorothy C. O'Donnell, B. S., Assoc. 4-H

Leader. ‡C. A. Thompson, B. S., Leader of Ext. †R. P. Winters, B. S., 4-H Leader.

Farm Crops:

*†G. H. Ahlgren, Ph. D., Prof. and Res. Spec.

*†G. H. Ahlgren, Ph. D., Prof. and Res. Spec. in Farm Crops.

†R. J. Aldrich, B. S., Asst. Res. Spec. in Farm Crops (Coop. U. S. D. A.).

*†J. C. Anderson, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Farm Crops.

†W. R. Battle, B. S., Res. Assoc. in Farm

†W. R. Battle, B. S., Res. Assoc. in Farm Crops. ‡J. E. Baylor, M. S., Asst. Ext. Spec. in Farm

Crops.
A. Briggs, B. S., Ext. Assoc. in Farm

Crops.

‡R. A. Briggs, B. S., Ext. Assoc.

Crops.

‡R. E. Engel, M. S., Res. Assoc. and Ext.

Assoc. in Turf Mgt.

†R. E. Frans, B. S., Res. Asst. Farm Crops.

*†H. D. Gross, B. S., Instr. Farm Crops.

*†R. S. Snell, Ph. D., Assoc. Prof. and Assoc.

Res. Spec. in Farm Crops.

*†M. A. Sprague, Ph. D., Asst. Prof. and Asst.

Res. Spec. in Farm Crops.

Food Technology:

*†W. A. Maclinn, Ph. D., Prof. and Res. Spec. in Food Technol. *†C. O. Ball, Ph. D., Prof. and Res. Spec. in

Food Technol. †Mrs. Roberta H. Whitlock, B. S., Lab. Tech., Food Technol.

Forestry:

‡A. N. Lentz, B. S., Ext. Spec. in Farm For. *G. M. Day, M. F., Ph. D., Asst. Prof. For.

Home Economics:

†Doris I. Anderson, M. A., Ext. Spec. in Home Mgt. †Phyllis P. Bradshaw, M. S., Asst. Ext. Spec. in Human Relations. †Marie C. Doermann, A. M., Ext. Spec. in

Nutr. ‡Inez J. LaBossier, B. S., Ext. Spec. in Clothing.

Horticulture:

*†N. F. Childers, Ph. D., Prof. and Res. Spec. in Hort. †Catherine H. Bailey, B. A., Tech. Asst. in

Pomol.

Pomoi.
†H. G. Bailey, Res. Assoc. in Veg. Crops.
*H. K. Bell, M. S., Instr. in Pomoi.
*†H. M. Biekart, B. S., Assoc. Prof. and Assoc.
Res. Spec. in Ornamental Hort.
‡E. G. Christ, M. S., Assoc. Ext. Spec. in

Pomol.

*R. B. Clark, M. S., Asst. Prof. Ornamental Hort.

Hort.

†Kathryn J. Conlin, B. S., Res. Asst. in Ornamental Hort.

†C. H. Connors, Ph. D., Prof. and Res. Spec. in Ornamental Hort.

†O. W. Davidson, Ph. D., Prof. and Res. Spec. in Ornamental Hort.

†C. A. Doehlert, M. S., Assoc. Res. Spec. in Cranberry and Blueberry Culture (P. O., Pemberton).

Cranberry and Blueberry Cutture (P. U., Pemberton).

‡A. J. Farley, B. S., Ext. Spec. in Pomol.

‡L. F. Hough, Ph. D., Prof. and Res. Spec. in Pomol.

‡R. M. T. Hutchinson, Ph. D., Asst. Res. Spec. in Hort. (P. O., Pemberton).

‡Sigvart Jorgenson, Instr. and Res. Assoc. in Ornamental Hort.

‡H. C. Kohl, Jr., Ph. D., Assoc. Ext. Spec. in Flor.

‡R. P. Korbobo, B. S., Assoc. Ext. Spec. in Ornamental Hort.

‡J. L. Laws. Res. Assoc. in Pomol.

†J. L. Laws, Res. Assoc. in Pomol. †S. B. LeCompte, Jr., Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Veg. Crops.

Horticulture-Continued

‡C. H. Nissley, B. S., Ext. Spec. in Veg. Crops.

*†L. G. Schermerhorn, A. M., Prof. and Res.

†L. G. Schermerhorn, A. M., Proj. and Kes. Spec. in Veg. Crops.

†W. E. Tomlinson, Jr., M. S., Asst. Res. Spec. in Cranberry and Blueberry Culture (P. O., Pemberton).

†R. B. Wilcox, M. S., Assoc. Res. Spec. in Hort. (Coop. U. S. D. A.: P. O., Pemberton)

berton).

Meteorology:

*†E. R. Biel, Ph. D., Prof. and Res. Spec. in Met.

*A. V. Havens, M. S., Asst. Prof. Met.

Microbiology:

*†S. A. Waksman, Ph. D., D. Sc., M. D., Prof.

*†S. A. Waksman, Ph. D., D. Sc., M. D., Prof. and Res. Spec. in Microbiol.
†C. W. Chung, M. D., Res. Asst. in Microbiol.
†A. B. Cooper, B. A., Tech. Asst. Microbiol.
†Vincent Groupé, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Microbiol.
*†W. J. Nickerson, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Microbiol.
†Leonora H. Pugh, M. S., Res. Assoc. in Microbiol.

†Leonora H. Pugh, M. S., Res. Assoc. viv. Microbiol.

*†W. L. Ruigh, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Microbiol.

*†R. L. Starkey, Ph. D., Prof. and Res. Spec. in Microbiol.

*†E. A. Swart, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Microbiol.

Oyster Culture:

†H. H. Haskin, Ph. D., Assoc. Res. Spec. in Oyster Invest. †B. G. Welch, B. S., Res. Assoc. in Oyster

Culture.

Plant Pathology:

*†W. H. Martin, Ph. D., D. Sc., Prof. and Res. Spec. in Plant Path. †J. C. Campbell, Asst. Res. Spec. in Plant

Path

*†Elizabeth S. Clark, Ph. D., Asst. Prof. and Asst. Res. Spec. in Plant Path.

*†R. H. Daines, Ph. D., Prof. and Res. Spec. in Plant Path.

*†B. H. Davis, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Plant Path.

*†S. H. Davis, Jr., Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Plant Path.

†A. C. Goheen, B. S., Asst. Res. Spec. in Plant Path. (Coop. U. S. D. A.).

*†C. M. Haenseler, Ph. D., Prof. and Res. Spec. in Plant Path.

Plant Physiology:

*†W. R. Robbins, Ph. D., Prof. and Res. Spec. in Plant Physiol.
†Eileen G. Brennan, M. S., Res. Assoc. in Plant Physiol.
*†H. E. Clark, Ph. D., Prof. and Res. Spec. in Plant Physiol.
†Ida A. Leone, M. S., Res. Assoc. in Plant Physiol.

Physiol.

Poultry Husbandry:

*†W. C. Thompson, Ph. D., Prof. and Res. Spec. in Poultry Husb.

*†F. R. Beaudette, D. V. M., Prof. and Res. Spec. in Poultry Path.

*†J. A. Bivins, D. V. M., Asst. Prof. and Asst. Res. Spec. in Poultry Path.

†J. J. Black, D. V. M., Assoc. Res. Spec. in Poultry Path. (P. O., Vineland).

†Helen E. Burd, B. S., Tech. Asst. in Poultry Path.

Path.

†J. J. Dowling, B. S., Asst. Res. Spec. in Poultry Husb. (P. O., Millville). †C. B. Hudson, M. S., Assoc. Res. Spec. in Poultry Path. †W. S. Packer, D. V. M., Asst. Res. Spec. in

Poultry Path.

Poultry Husbandry-Continued

*J. A. Pino, B. S., Instr. Poultry Husb.

*†C. S. Platt, M. S., Prof. and Res. Spec. in
Poultry Husb.

*†P. D. Sturkie, Ph. D., Prof. and Res. Spec. in Poultry Physiol.

*J. C. Taylor, M. S., Ext. Spec. in Poultry Husb.

*†H. S. Weiss, M. S., Instr. and Res. Assoc. in Poultry Physiol.

Sanitation:

*†Willem Rudolfs, Ph. D., Prof. and Res. Spec. in Sanitation.
†J. L. Balmat, M. S., Res. Assoc. in Sanitation.

†I. Gellman, B. C. E., Res. Asst. in Sanita-

tation *†H.

†H. Heukelekian, Ph. D., Prof. and Res. Spec. in Sanitation, †R. M. Manganelli, B. S., Res. Assoc. in Sanitation.

†N. L. Nemerow, M. S., Res. Asst. in Sanitation.

*†H. E. Orford, M. S., Asst. Prof. and Asst. Res. Spec. in Sanitation. †M. C. Rand, M. Sc., Res. Assoc. in Sani-

tation.

Seed Analysis:

†E. A. Butters, A. B., Admin. Asst., Seed

†Jennie A. Bloodgood, B. S., Res. Asst. in Agr., Seed Anal. †Sadie L. Boyce, Res. Assoc. in Agr., Seed

Anal. †Viola Sullivan, Res. Asst. in Agr., Seed Anal.

Soils:

*†F. E. Bear, Ph. D., Prof. Agr. Chem.; Res. Spec. in Soils.

*†G. R. Blake, Ph. D., Asst. Prof. and Asst. Res. Spec. in Soils.

*†W. J. Hanna, M. S., Instr. and Res. Assoc.

in Soils.

in Soils.

†J. S. Joffe, Ph. D., Prof. Pedology; Res. Spec. in Soils.

‡W. A. Mitcheltree, M. S., Assoc. Ext. Spec. in Soils.

†O. R. Neal, Ph. D., Assoc. Res. Spec. in Soils (Soil Conserv.: Coop. U. S. D. A.).

*†A. L. Prince, M. S., Assoc. Prof. and Assoc. Res. Spec. in Soils.

*†E. R. Purvis, Ph. D., Prof. and Res. Spec. in Soils.

in Soils.

in Soils.

‡H. R. Slayback, A. B., M.F., Ext. Spec. in Soil Conserv.

†H. G. Smith, Res. Assoc. in Soils (Coop. U. S. D. A.).

*†J. C. F. Tedrow, M. S., Asst. Prof. and Asst. Res. Spec. in Soils.

*†S. J. Toth, Ph. D., Assoc. Prof. and Assoc. Res. Spec. in Soils.

Miscellaneous:

*W. Griffin, B. S., Admin. Asst.
*H. F. Huber, B. S., Supt. of Plant and Equipment.

*†I. E. Quackenboss, Bursar.

*†Van Wie Ingham, B. S., Asst. to Dean and Dir. of Sta.

†L. A. Hausman, Ph. D., Consult. Ornith.

*†L. B. Arrington, Ph. D., Libr.

*†R. E. Long, Asst. Bursar.

†June Rieur, B. S., Senior Libr. Asst., Microhial.

*Hilde R. Werthauer, B. S., Libr. Asst. *†J. R. Westman, Ph. D., Ph. B., Assoc. Prof. and Assoc. Res. Spec. in Wildlife Mgt.

Substations:

Cranberry and Blueberry Res. Lab., P. O., Pemberton—
C. A. Doehlert, M. S., Assoc. Res. Spec. in Cranberry and Blueberry Res., in charge.

Substations-Continued

Dairy Res. Farm, P. O., Sussex—
J. W. Bartlett, Ph. D., Res. Spec. in
Dairy Husb., in charge.
Oyster Res. Lab., P. O., Bivalve—
B. G. Welch, B. S., Res. Assoc. in Agr.,
Oyster Invest., in charge.

Substations-Continued

J. J. Black, D. V. M., Assoc. Spec. in Poultry Path. Lab., P. O., Vineland— J. J. Black, D. V. M., Assoc. Spec. in Poultry Path., in charge. Turkey Res. Farm, P. O., Millville— J. J. Dowling, B. S., Asst. Res. Spec. in Poultry Husb., in charge.

NEW MEXICO

New Mexico College of Agriculture and Mechanic Arts, the Agricultural Experiment Station, and the Extension Service, State College (freight and express address, Mesilla Park)

*College faculty. †Station staff. \$Leave of absence. ‡Extension staff.

*J. W. Branson, M. S., President.

*†‡R. A. Nichols, Ph. D., Dean and Dir. School of Agr., Dir. of Sta., Dir. of Ext. Service.

†A. S. Curry, B. S., Assoc. Dir. of Sta.

†G. L. Boykin, B. S., Assoc. Dir. of Ext. Service.

†‡W. F. Wyman, Comptroller.

Agronomy:

*†J. C. Overpeck, M. S., Prof. Agron.; Agron. ‡L. R. Appleton, M. S., Ext. Soil Spec. *†C. W. Chang, Ph. D., Assoc. Prof. and

Assoc. Agron.

*†J. E. Chapman, M. S., Asst. Prof. and Asst.

*†A. D. Dotzenko, Ph. D., Asst. Prof. and Asst. Agron.

*†H. E. Dregne, Ph. D., Prof. Agron.; Agron.

‡Gordon Hoff, M. S., Ext. Agron.

†Sherman Paur, M. S., Asst. Prof. and Asst. Agron.

*†Glen Staten, M. S., Assoc. Prof. and Assoc. Agron. †G. N. Stroman, Ph. D., Agron.

Animal Husbandry:

*†J. H. Knox, M. S., Prof. An. Husb.; An.

*†1. H. Khox, M. S., Prof. An. Husb.; An. Husb.

*†2. W. Benner, D. V. M., M. S., Assoc. Prof. and Assoc. An. Husb. (Vet.).

†W. E. Flint, B. S., Asst. Ext. An. Husb.

*†Marvin Koger, Ph. D., Assoc. Prof. and Assoc. An. Husb.

*†J. D. Mankin, M. S., Instr. and Asst. in An. Husb.

*†P. E. Neale, M. S., Prof. An. Husb.; An. Husb. *†J. J. Norris, M. S., Asst. Prof. and Asst.

An. Husb. *†K. A. Valentine, M. S., Assoc. Prof. and

*†K. A. Valentine, m. S., Assoc. A., Assoc. An. Husb. Husb.;

*†W. E. Watkins, M. S., Prof. An. Husb.;

Nutr. Chem.

‡Ivan Watson, M. S., Ext. An. Husb.

Biology:

*†R. F. Crawford, M. S., Prof. Biol.; Biol. *Mrs. Florence M. Anderson, M. A., Instr.

*M. G. Anderson, Ph. D., Asst. Prof. Biol.

*J. R. Eyer, Ph. D., Prof. Biol. and Ent.

†L. R. Faulkner, M. S., Asst. Ent.

*Mrs. Maud T. Guthrie, M. A., Asst. Prof.

*Mrs. Maud 1. Guthire, M. A., Assoc. Path. Biol.
†P. J. Leyendecker, Jr., Ph. D., Assoc. Path. ‡Leon Moore, M. S., Ext. Ent.
*J. E. Weiss, Ph. D., Asst. Prof. Biol.

Chemistry:

*A. D. Boston, Ph. D., Dean School of Arts and Sci. and Prof. Chem. (State Chem.).

*R. L. Barrett, Ph. D., Asst. Prof. Chem.

*†P. C. Duisberg, Ph. D., Asst. Prof. and Asst. Chem.

*L. B. Evans, Ph. D., Asst. Prof. Chem.

*G. R. Hamiel, M. A., Prof. Chem.

*Kennett Melgaard, M. S., Asst. Prof. Chem.

*L. B. Shires, M. S., Ch. E., Prof. Chem.;

Head Dept. Chem. Engin.

*H. O. Smith, Ph. D., Assoc. Prof. Chem.

*Thomas Todsen, Ph. D., Instr. Chem.

Dairy Husbandry:

*†W. I. Tretsven, Ph. D., Prof. Dairy Husb.;
Dairy Husb.
‡E. E. Anderson, B. S., Ext. Dairyman and

Poultryman. *†E. E. Ballou, M. S., Instr. and Asst. Dairy Husb.

*†§R. M. Porter, M. S., Asst. Prof. Dairy Husb. *†S. R. Skaggs, M. S., Assoc. Dairy Husb.

Economics (Agr.):

*†P. W. Cockerill, M. S., Prof. Agr. Econ.;
Agr. Econ., Asst. Dean of Agr.

*J. E. Cole, B. S., Asst. in Mktg.

*†Morris Evans, M. S., Assoc. Prof. and
Assoc. Agr. Econ.

\$tanley Grinslade, B. S., Asst. in Mktg.

*†C. R. Hall, M. S., Instr. and Asst. in Cotton Mkta. Res.

*†C. R. Hall, M. S., Instr. and Asst. in Cotton Mktg. Res.

†C. R. Keaton, M. S., Assoc. Econ. in Mktg. Raquel Otero, M. S., Asst. in Mktg. †H. B. Pingrey, M. S., Assc. Agr. Econ.

†J. Z. Rowe, M. S., Est. Econ.

†W. K. Snyder, M. S., Asst. Agr. Econ. and Assoc. Mktg. Spec.

†W. P. Stephens, M. S., Asst. in Mktg. and Farm Mgt.

‡Marshall Thompson, B. S., Asst. in Mktg.

Editorial:

Virginia W. Johansen, B. A., Sta. †Mrs. Editor. ‡C. D. Herrell, Asst. Ext. Editor in charge

Radio. ‡H. R. Taylor, B. S., Asst. Editor. ‡J. M. White, M. A., Ext. Editor.

Education (Agr.):

*C. G. Howard, M. S., Prof. Agr. Ed.

Engineering (Agr.):

*†A. E. Stewart, M. S., Assoc. Prof. Agr. Engin. and Actg. Head of Dept. *†Eldon Hanson, M. S., Asst. Prof. and Asst. Agr. Engin.

‡C. S. Taylor, B. S., Ext. Agr. Engin.

*Zariel Tyson, M. A., Instr. Agr. Engin.

Extension Administration:

‡R. A. Nichols, Ph. D., Dir.
‡G. L. Boykin, B. S., Assoc. Dir.
‡H. L. Hildwein, B. S., Asst. Dir.
‡Elsie Cunningham, M. A., State Home Agt.
‡L. S. Kurtz, B. S., State 4-H Club Leader.
‡S. D. Apodaca, B. S., Asst. State 4-H Club

Leader †Travis Hughs, B. S., Assoc. State 4-H Club

Leader ‡A. E. Triviz, B. S., County Agt. Leader.

Geography and Geology:

*J. E. Culbert, Ph. D., Assoc. Prof. and Head of Dept.

Home Economics:

*Margaret A. O'Loughlin, M. S., Prof. Home

Econ.

*Hildure E. Anderson, M. S., Assoc. Prof. Home Econ. *Mrs. Opal W. Beaty, M. S., Asst. Prof.

Home Econ. ‡Rheba M. Boyles, M. A., Ext. Clothing

Spec †Mrs. Helen W. Gough, M. S., Asst. Home

Econ.

†Edith M. Lantz, M. A., Home Econ. *Mrs. Elsie D. Stroman, M. S., Instr. Home Econ.

‡ Veda A. Strong, B. S., Home Mgt. Spec.

Horticulture:

*†J. V. Enzie, M. S., Prof. Hort.; Hort. †L. C. Gibbs, M. S., Ext. Hort. *†R. E. Harper, M. S., Assoc. Prof. and

Assoc. Hort. *†K. W. Hench, M. S., Instr. and Asst. in Hort.

Poultry Husbandry:

*†L. N. Berry, B. S., Prof. Poultry Husb.; Poultry Husb.

Miscellaneous:

*†C. H. Lincheid, M. A. L. S., Libr. †R. W. Allen, M. S., Parasit. (Coop. U. S. D. A.). ‡L. R. Appleton, B. S., Ext. Soil Spec.

Miscellaneous-Continued

iscellaneous—Continued
†Lester Blank, Ph. D., Senior Path. (Coop.
U. S. D. A.).
†D. R. Burnham, B. S., Assoc. Agr. (Coop.
U. S. D. A.).
†J. L. Gardiner, Ph. D., Assoc. Soil Conserv.
(Coop. U. S. D. A.).
†D. S. Hubbell, Ph. D., Soil Conserv. (Coop.
U. S. D. A.).
†R. W. Leamer, Ph. D., Soil Sci. (Coop.
U. S. D. A.).
†A. R. Leding, Agron. (Coop. U. S. D. A.).
†L. R. Lytton, Senior Agr. Aid (Coop. U. S.
D. A.).

D. A.). †H. J. Maker, B. S., Soil Sci. (Coop. U. S.

D. A.). †F. A. B. McKiel, Cotton Stat. (Coop. U. S. †M. L. Seal, M. S., Soil Sci. (Coop. U. S.

D. A.). ‡J. G. Wilson, B. S., Ext. Soil Conserv.

Substations:

Middle Rio Grande Substa., P. O., Albuquerque— H. D. Jones, B. S., Supt. and Asst.

Agron.

Northeastern Substa., P. O. Tucumcari—
D. R. Burnham, B. S., Supt.
C. G. Painter, M. S., Asst. in Agron.
D. H. Williams, M. S., Assoc. Agron.
Plains Substa., P. O., Clovis—
John Carter, B. S., Supt. and Assoc.

Agron.

NEW YORK

New York State Colleges of Agriculture and Home Economics and the Agricultural Experiment Station at Cornell University, Ithaca

*College faculty. †Station staff. ‡Extensic \$Leave of Absence. ||Military leave. ‡Extension staff.

*T. P. Wright, B. S., D. Sc., Actg. President of University.

*†W. I. Myers, Ph. D., Dean Coll. of Agr., Prof. Farm Finance, Agr. Econ.

*†\$W. I. Myers, Ph. D., Dean Coll. of Agr., Prof. Farm Finance, Agr. Econ.

**A. W. Gibson, M. S., Dir. of Resident Instr., and Prof. Personnel Admin.

*†\$Elizabeth Lee Vincent, Ph. D., Dean Coll. of Home Econ. and Prof. Home Econ.

*†C. E. F. Guterman, Ph. D., Dir. of Res. and Dir. of Sta., Prof. Plant Path.

**L. R. Simons, B. S., Dir. of Est. and Prof. in Ext. Service.

*†Catherine J. Personius, Ph. D., Asst. Dir. of Sta. and Prof. Food and Nutr.

‡Frances A. Scudder, M. A., Coordinator of Ext. Home Econ. and Prof. Ext. Service.

*†Jean Failing, Ph. D., Coordinator of Resident Instr., Prof. Home Econ.

*†R. H. Wheeler, B. S., Dir. of Finance. Asst. Treas., and Prof. in Ext. Service.

Agronomy:

*†Richard Bradfield, Ph. D., D. Sc., Prof. and Head of Dept. ‡S. R. Aldrich, Ph. D., Assoc. Prof. Field

†S. R. Aldrich, Ph. D., Assoc. Prof. Field Crops.
†K. C. Beeson, Ph. D., Prof. Soil Sci. (Coop. U. S. D. A.).
*†N. C. Brady, Ph. D., Asst. Prof. Agron.
†C. S. Brandt, Ph. D., Asst. Prof. Soil Sci.
*†F. E. Broadbent, Ph. D., Assoc. Prof. Soil

*†F. E. Broadbent, Ph. D., Assoc. Prof. Soil Microbiol.

**M. G. Cline, Ph. D., Prof. Soil Sci.

*†J. E. Dawson, Ph. D., Assoc. Prof. Soil Sci.

*†Leah English, B. S., Analyst in Agron.

†W. L. Garman, M. S., Asst. Prof. Agron.

†W. L. Garman, M. S., Asst. Prof. Agron.

*†H. B. Hartwig, Ph. D., Prof. Field Crops.

††A. E. Hiltbold, B. S., Instr. Agron.

†W. K. Kennedy, Ph. D., Prof. Agron.

†John Lamb, Jr., Prof. Soil Conserv. (Coop. U. S. D. A.).

†D. J. Lathmell, Ph. D., Asst. Prof. Soil Sci.

††H. A. MacDonald, Ph. D., Assoc. Prof. Field Crops.

*†R. B. Musgrave, Ph. D., Assoc. Prof. Field Crops.

*†Michael Peech, Ph. D., Prof. Soil Sci.

†Leverett Saltonstall, Jr., Ph. D., Asst. Prof. Agron.

**E. T. Stone, Ir. Ph. D. Asst. Prof. For.

*†E. L. Stone, Jr., Ph. D., Asst. Prof. For. Soils.

Agronomy—Continued

*†W. K. Widger, Jr., D. Sc., Asst. Prof. Met. †‡P. J. Zmerman, Ph. D., Assoc. Prof. Soil *†‡P. J. Zmc. Conserv.

Animal Husbandry:

*†K. L. Turk, Ph. D., Prof. and Head of Dept.
†Harry Ainslie, M. S., Asst. Prof. An. Husb.
†Raymond Albrectsen, M. S., Prof. An. Husb.
†S. A. Asdell, Ph. D., Prof. An. Physiol.
†L. L. Barnes, Ph. D., Prof. Biophysics.
†C. G. Bradt, B. S., Assoc. Prof. An. Husb.
†R. W. Bratton, Ph. D., Assoc. Prof. An.
Husb.

Husb.

‡S. J. Brownell, M. Agr., M. S., Prof. An.
Husb.

‡J. D. Burke, M. S., Assoc. Prof. An. Husb.

‡H. W. Carter, M. S., Asst. Prof. An. Husb.

‡W. T. Crandall, M. S., Prof. An. Husb.

†R. H. Foote, M. S. A., Asst. Prof. An. Husb.

†William Hansel, Ph. D., Asst. Prof. An.
Husb.

*†William Hansel, I.L. 2.,

Husb.

*†C. R. Henderson, M. S., Assoc. Prof. An.

Husb.

‡G. R. Johnson, M. S., Assoc. Prof. An. Husb.

‡M. D. Lacy, M. S., Prof. An. Husb.

*†J. K. Loosli, Ph. D., Prof. An. Nutr.

*†L. A. Maynard, Ph. D., Prof. Nutr. and

*†C. M. McCay, Ph. D., Prof. Nutr. *†J. I. Miller, Ph. D., Prof. An. Husb. *†F. B. Morrison, D. Sc., Prof. An. Husb. and An. Nutr.

Animal Husbandry-Continued

*†J. T. Reid, Ph. D., Assoc. Prof. An. Husb. †‡N. W. Rollins, M. S., Actg. Asst. Prof. An. Husb.

*†L. H. Schultz, Ph. D., Asst. Prof. An. Husb.

*†C. D. Schutt, Instr. An. Husb.

*†S. E. Smith, Ph. D., Assoc. Prof. An. Husb.

‡R. W. Spalding, M. A., Asst. Prof. An. Husb.

*†G. W. Trimberger, Ph. D., Assoc. Prof. An. Husb. *†J. J. Wanderstock, Ph. D., Asst. Prof. An.

Husb.
H. Wellington, M. S., Assoc. Prof. An.

† Husb. †T. E. Wiley, M. S., Asst. Prof. An. Husb. †T. E. Wiley, M. S., Prof. An. Husb. † H. A. Willman, M. S., Prof. An. Husb. ††J. P. Willman, Ph. D., Prof. An. Husb.

Biochemistry and Nutrition:

*†L. A. Maynard, Ph. D., Prof. Nutr. and Biochem. and Head of Dept. *†Louise J. Daniel, Ph. D., Asst. Prof. Bio-

chem

chem.

*†G. H. Ellis, Ph. D., Assoc. Prof. Biochem.
and Nutr. (Coop. U. S. D. A.).

*†‡A. L. Neal, Ph. D., Assoc. Prof. Biochem.

*†W. L. Nelson, Ph. D., Assoc. Prof. Biochem.

*†P. E. Ramstad, Ph. D., Assoc. Prof. Bio-

chem.

*†\$\psi\$. F. Somers, Jr., Ph. D., Assoc. Prof. Biochem. (Coop. U. S. D. A.).

*†J. B. Sumner, Ph. D., Prof. Biochem.

†\$\psi\$0din Wilhelmy, Jr., Ph. D., Asst. Prof. Biochem. and Nutr.

*†\$\psi\$H. H. Williams, Ph. D., Prof. Biochem.

**tLewis Knudson, Ph. D., Prof. and Head of Dept.

*†H. P. Banks, Ph. D., Assoc. Prof. Bot.

*†D. G. Clark, Ph. D., Prof. Bot.

*†R. T. Clausen, Ph. D., Prof. Bot.

*G. E. Hunt, Ph. D., Instr. Bot.

*†W. C. Muenscher, Ph. D., Prof. Bot.

*†L. C. Petry, Ph. D., Prof. Bot.

(C. Petry, Ph. D., Prof. Bot.

*†L. F. Randolph, Ph. D., Prof. Bot.

*†E. C. Steward, Ph. D., D. Sc., Prof. Bot.

*†C. H. Uhl, Ph. D., Asst. Prof. Bot.

Child Development and Family Relationships:

*†§R. H. Dalton, Ph. D., Prof. and Head of Dept.

Dept.

*Mary L. Barrett, M. A., Asst. Prof. Child Development and Family Relationships.

‡R. C. Braithwaite, Ph. D., Asst. Prof. Child Development and Family Relationships.

†Urie Bronfenbrenner, Ph. D., Prof. Child Development and Family Relationships.

‡Margaret Brooks, M. A., Asst. Prof. Child Development and Family Relationships.

†Edward Deveroux, Ph. D., Assoc. Prof. Child Development and Family Relationships.

tionships.

tionships.

*†Hdrold Feldman, M. A., Instr. Child Development and Family Relationships.

*†Mary E. Ford, Ph. D., Assoc. Prof. Child Development and Family Relationships.

*Helen Hatch, M. A., Instr. Child Development and Family Relationships.

*†Mrs. Dorothea Leighton, M. D., Prof. Child Development and Family Relationships.

*Elizabeth S. Marsh, M. A., Child Development and Family Relationships.

*E. V. Pope, M. A., Asst. Prof. Child Development and Family Relationships.

*Mrs. Marie A. Reed, R. N., School Nurse, Dept. of Child Development and Family Relationships.

*Katherine Reeves, M. A., Assoc. Prof. Child

*Katherine Reeves, M. A., Assoc. Prof. Child Development and Family Relationships. †Mrs. Lemo D. Rockwood, Ph. D., Prof. Child Development and Family Relation. *†Mrs. ships.

*Mollie ollie S. Smart, A. M., Actg. Asst. Prof. Child Development and Family Relationships.

Child Development and Family Relationships-Continued

*†R. C. Smart, Ph. D., Assoc. Prof. Child Development and Family Relationships. *Miriam Taietz, B. S., Lect. Child Develop-ment and Family Relationships. *†Mrs. Ethel B. Waring, Ph. D., Prof. Child Development and Family Relationships. *Helen P. Washburn, A. M., Actg. Asst. Prof. Child Development and Family Re-lationships.

lationships.

‡Margaret Wylie, Ph. D., Prof. Child 1
opment and Family Relationships. Prof. Child Devel-

Conservation:

*†‡G. A. Swanson, Ph. D., Prof. and Head of Dept.

*†‡G. A. Swanson, Ph. D., Prof. and Head of Dept.

*†‡A. A. Allen, Ph. D., Prof. Ornith.

*†‡J. C. Ayers, Ph. D., Asst. Prof. Oceanography.

*\tilde{\text{t}}\text{.} \text{.} \text{.

Dairy Industry:

*†J. M. Sherman, Ph. D., Prof. Bact. and Head of Dept.

*†A. C. Dahlberg, Ph. D., Prof. Dairy Indus.

*†E. A. Delwiche, Ph. D., Asst. Prof. Bact.

*†B. L. Herrington, Ph. D., Prof. Dairy Chem.

*‡R. F. Holland, Ph. D., Prof. Dairy Indus.

*†W. K. Jordan, Ph. D., Asst. Prof. Dairy Indus.

*†G. A. Knaysi, Ph. D., Prof. Bact. *†F. V. Kosikowsky, Ph. D., Assoc. Prof.

*†F. V. Kosikowsky, r.i. —,
Dairy Indus.
*†V. N. Krukovsky, Ph. D., Assoc. Prof. Dairy

*†R. P. March, M. S., Asst. Prof. Dairy Indus. *†H. B. Naylor, Ph. D., Prof. Dairy Indus. *†H. W. Seeley, Jr., Ph. D., Asst. Prof. Bact. *†W. F. Shipe, Jr., Ph. D., Asst. Prof. Dairy

*†C. N. Stark, Ph. D., Prof. Bact. *†C. N. Stark, Ph. D., Prof. Bact. *†P. J. Van Demark, Ph. D., Asst. Prof. Bact. *‡J. C. White, Ph. D., Assoc. Prof. Dairy

*†§M. R. Zelle, Ph. D., Prof. Bact.

Drawing (Agr.):

*Mrs. Elizabeth L. Burckmyer, M. S., Asst. Prof. Drawing.

Economics (Agr.):

*†R. E. Hill, Ph. D., Prof. and Head of Dept.

†M. C. Bond, Ph. D., Prof. Mktg.

†C. A. Bratton, Ph. D., Assoc. Prof. Farm

Mgt.

*†M. E. Brunk, Ph. D., Assoc. Prof. Mktg.

†W. W. Burger, M. S. A., Asst. Prof. Mktg.

*†H. E. Conklin, Ph. D., Assoc. Prof. Land

Bean.

Econ.

Econ.

†L. C. Cunningham, Ph. D., Prof. Farm Mgt.

*†§L. B. Darrah, Ph. D., Assoc. Prof. Farm
Mgt.

*†H. F. DeGraff, Ph. D., Prof. Land Econ.

‡W. G. Earle, Ph. D., Prof. Farm Mgt.

*V. B. Hart, Ph. D., Prof. Farm Mgt.

*†G. W. Hedlund, Ph. D., Prof. Business Mgt.

*†T. N. Hurd, Ph. D., Prof. Land Econ.

†C. D. Kearl, Ph. D., Asst. Prof. Farm Mgt.

*M. S. Kendrick, Ph. D., Prof. Public Finance.

nance.
*†E. A. Lutz, Ph. D., Assoc. Prof. Public Admin.

Economics (Agr.)-Continued

*†E. G. Misner, Ph. D., Prof. Farm Mgt. *†F. A. Pearson, Ph. D., Prof. Prices and Stat

*†M. P. Rasmussen, Ph. D., Prof. Mktg.

*†G. P. Scoville, M. A., Prof. Farm Mgt.

‡E. N. Searls, Ph. D., Asst. Prof. Mktg.

*†Leland Spencer, Ph. D., Prof. Mktg.

*†Leland Spencer, Ph. D., Prof. Farm Mgt.

‡Mary B. Wood, M. S., Asst. Prof. Food

Mktg.

Economics of the Household and Household Management:

*†Helen Canon, Ph. D., Prof. and Head of

*†Helen Canon, Dept.
*†§Ann M. Aikin, Ph. D., Assoc. Prof. Econ.
of the Household and Household Mgt.
*†Mrs. Esther C. Bratton, Ph. D., Asst. Prof.
Econ. of the Household and Household

Mgt.

Leola Cooper, M. A., Asst. Prof. Econ. of the Household and Household Mgt.

Mrs. Dorothy W. Cousens, M. S., Asst. Prof. Econ. of the Household and Household Mgt.

Ella M. Cushman, M. S., Prof. Econ. of the Household and Household Mgt.

Ruth E. Deacon, M. S., Instr. Econ. of the Household and Household Mgt.

Mrs. Mary K. Heiner, M. S., Assoc. Prof. Econ. of the Household and Household and Household Mgt.

**Mary E. Purchase, M. S., Instr. Econ. of the Household and Household Mgt.

**Table A. Rollins, Ph. D., Assoc. Prof. Econ. of the Household and Household Mgt.

**Table I. Rollins, Ph. D., Assoc. Econ. of the Household and Household Mgt.

**Rose Steidl, M. S., Res. Assoc. Econ. of the Household and Household Mgt.

**Mrs. Lucille J. Williamson, Ph. D., Prof. Econ. of the Household and Household Mat.

Education (Rural):

*A. L. Winsor, Ph. D., Prof. and Head of Dept.

*IT. L. Bayne, Jr., Ph. D., Assoc. Prof. Rural Ed.

*J. E. Butterworth, Ph. D., Prof. Rural Ed.

*E. W. Crane, B. S., Instr. Rural Ed.

*L. H. Elliott, Ph. D., Assoc. Prof. Secon.

*L. H. Elliott, Ph. D., Assoc. Prof. Secon. Ed.

*†M. D. Glock, Ph. D., Prof. Rural Ed.

*Eva L. Gordon, Ph. D., Asst. Prof. Rural Ed.

*E. R. Hoskins, Ph. D., Asst. Prof. Rural Ed.

*W. R. Kunsela, M. S. E., Asst. Prof. Rural Ed.

**J. P. Leagans, Ph. D., Prof. Ext. Ed.

*C. B. Moore, Ph. D., Prof. Rural Ed.

*A. G. Nelson, Ph. D., Assoc. Prof. Ed. and Voc. Guidance.

*H. L. Noakes, M. S., Instr. Rural Ed.

*L. A. Preston, B. S., Instr. Rural Ed.

*W. A. Smith, Ph. D., Assoc. Prof. Rural Ed.

*W. A. Smith, Ph. D., Assoc. Prof. Rural Ed.

Engineering (Agr.):

*†‡O. C. French, M. S., Prof. and Head of Dept.

‡D. W. Bates, B. S., Instr. Agr. Engin.

*†L. L. Boyd, M. S., Asst. Prof. Agr. Engin.

*Harold Clough, Instr. Agr. Engin.

‡C. M. Edwards, M. S., Asst. Prof. Agr.

*Harou.

‡C. M. Edwards, M. S.,

Engin.

*E. W. Foss, M. S., Prof. Agr. Engin.

*\$A. M. Goodman, B. S., Prof. Agr. Engin.

*†H. E. Gray, Ph. D., Asst. Prof. Agr. Engin.

†W. W. Gunkel, M. S., Asst. Prof. Agr.

Engin.

"" G. Hartsock, B. S., Instr. Agr. Engin.

Prof. Agr. Engin.

Agr. Engin.

*||J. G. Hartsock, B. S., Instr. Agr. Engin.

‡P. R. Hoff, M. S., Prof. Agr. Engin.

‡E. D. Markwardt, B. S., Instr. Agr. Engin.

‡B. A. Jennings, B. S., Prof. Agr. Engin.

*F. H. Randolph, B. A., M. E., Prof. Institution

tional Engin.

Engineering (Agr.)-Continued

* ||C. I. Sayles, B. S., M. E. E., Prof. Institutional Engin.

*†E. S. Shepardson, M. S., Assoc. Prof. Agr. *†E. S. Sneparuson,
Engin.
†C. W. Terry, Ph. D., Prof. Agr. Engin.
†C. N. Turner, M. S., Assoc. Prof. Agr.
Engin.

Ph. D., Prof. Agr. Engin.

Entomology and Limnology:

*†D. C. Chandler, Ph. D., Assoc. Prof. Limnology.
†‡W. L. Coggshall, Ph. D., Assoc. Prof. Apiculture.

*†J. E. Dewey, Ph. D., Assoc. Prof. Ent.
†Henry Dietrich, Ph. D., Assoc. Prof. Ent.
and Curator of Insects.

*†‡E. J. Dyce, Ph. D., Prof. Apiculture.

*†W. T. M. Forbes, Ph. D., Assoc. Prof. Ent.

*†G. G. Gyrisco, Ph. D., Assoc. Prof. Ent.

*†J. D. Hood, Ph. D., Prof. Biol.
†H. C. Huckett, Ph. D., Assoc. Prof. Ent.
(P. O., Riverhead).

‡A. A. LaPlante, Jr., Ph. D., Assoc. Prof. Ent.
‡T. G. Matthysse, Ph. D., Assoc. Prof. Econ.
Ent.

Ent.
B. Norton, Ph. D., Prof. Insecticidal

Ent.

*†L. B. Norton, Ph. D., Prof. Insecticidal Ohem.

*†V. S. L. Pate, Ph. D., Asst. Prof. Ent.

*†R. L. Patton, Ph. D., Prof. Insect Physiol.

*†W. A. Rawlins, Ph. D., Prof. Ent.

*†H. H. Schwardt, Ph. D., Prof. Ent.

*†B. V. Travis, Ph. D., Prof. Med. Ent.

*L. D. Uhler, Ph. D., Asst. Prof. Biol.

*†§T. C. Watkins, Ph. D., Prof. Econ. Ent.

Extension Administration:

‡L. R. Simons, B. S., Dir.
‡F. B. Morris, B. S., Prof. in Ext. Service
and State Leader County Agr. Agts.
‡§Frances A. Scudder, M. A., Coordinator of
Ext. Home Econ., Prof. in Ext. Service
and State Leader Home Dem. Agts.
‡EI Bates, M. D., M. S., Advisor in Indian

Ext.

tVera A. Caulum, M. S., Assoc. Prof. in Ext. Service and Asst. State Leader Home Dem. Agts. tC. F. Crowe, M. S., Prof. in Ext. Service and Asst. State Leader County Agr.

Agts.

Dorothy C. DeLany, M. S., Prof. in Ext. Service

Service

\$D. B. Fales, M. S., Prof. in Ext. Service and Asst. State 4-H Club Leader.

\$R. F. Fricke, B. S., Prof. in Ext. Service and Asst. State Leader County Agr.

Aats.

Agts.

†Elizabeth Graddy, M. A., Assoc. Prof. in
Ext. Service and Asst. State Leader
Home Dem. Agts.

†Iva M. Gross, M. A., Prof. in Ext. Service
and Asst. State 4-H Club Leader.
†E. K. Hanks, B. S., Prof. in Ext. Service.
†C. R. Harrington, B. S., Prof. in Ext. Service and Asst. State Leader County Agr.

ice and Asst. State Leader Uounty Ayr. Ayts.

‡D. L. Hayes, B. S., Prof. in Ext. Service and Asst. State Leader County Ayr. Ayts. F. E. Heinzelman, B. S., Prof. in Ext. Service and Asst. State 4-H Club Leader. ‡Albert Hoefer, B. S., Prof. in Ext. Service and State 4-H Club Leader.

‡L. D. Kelsey, B. S., Prof. in Ext. Service. ‡H. A. Kerr, B. S., Ext. Soil Conserv. ‡Martha E. Leighton, B. S., Assoc. Prof. in Ext. Service and Asst. State 4-H Club Leader.

Leader.

Extension Administration-Continued

‡J. A. Lennox, B. S., Prof. in Ext. Service and Asst. State 4-H Club Leader.
 ‡Hazel E. Reed, B. S., Assoc. Prof. in Ext. Service and Asst. State Leader Home

Dem. Agts. . E. Robinson, Litt. B., B. S., Prof. in İΜ.

Ext. Service.

‡H. M. Wilson, Ext. Soil Conserv.

‡Orrilla Wright, B. S., Prof. in Ext. Service and Asst. State Leader Home Dem. Agts.

Extension Teaching and Information:

**†‡W. B. Ward, M. S., Prof. of Ext. Teaching
and Information, Editor and Chief of
Pubs., and Head of Dept.
‡R. B. Ames, B. S., Asst. Prof. Ext. Teaching and Information.
‡G. S. Butts, B. S., Assoc. Prof. in Ext.
Teaching and Information and Supvr.
Farm Study Courses.
†Dorothy Chase, B. S., Asst. Editor of Pubs.
*C. H. Freeman, M. S., Assoc. Prof. Ext.
Teaching.

†Dorolly Chara, M. S., Assoc. 1...,
Teaching.

†Mrs. Ellen W. Gabriel, A. M., Editorial
Asst. of Pubs.

†‡L. W. Kaiser, B. F. A., Assoc. Prof. Ext.
Teaching and Information.

†‡J. S. Knapp, B. S., Assoc. Prof. in Ext.
Teaching and Information.

‡Nellie B. Leonard, B. A., Asst. Editor of
Pubs.

Pubs.
*F. A. Lueder, Jr., B. S., Instr. Ext. Teach-

ing. *R. D. Martin, M. S., Asst. Prof. Ext. Teach-

*G. E. Peabody, M. S., Prof. Ext. Teaching.
*†‡E. S. Phillips, B. S., Assoc. Prof. in Ext.
Teaching and Information.
‡Helen Pundt, B. S., Asst. Editor in Home

Econ.

#Helen Stanick, B. S., Editorial Asst. in

Home Econ.

†Mrs. Marion K. Stocker, B. S., Asst. Prof.
Home Econ.; Editor in Home Econ.

Floriculture and Ornamental Horticulture:

*†‡L. H. MacDaniels, Ph. D., Prof. and Head

*† J. H. MacDaniels, Ph. D., Prof. and Head Dept. of Flor. and Ornamental Hort.

*†‡Arthur Bing, Ph. D., Asst. Prof. Flor.

‡D. J. Bushey, Ph. D., Assoc. Prof. Ornamental Hort.

*†J. F. Cornman, Ph. D., Assoc. Prof. Ornamental Host.

††T. M. Eastwood, Ph. D., Asst. Prof. Flor. ††T. M. Eastwood, Ph. D., Asst. Prof. Flor. ‡R. T. Fox, B. S., Instr. Flor. *†Vera E. Hakanson, Instr. Flor. *†R. E. Lee, Ph. D., Asst. Prof. Flor. *D. J. Pierce, B. A., Actg. Asst. Prof. Ornamental Hort

*J. P. Porter, M. S., M. L. D., Assoc. Prof. Ornamental Hort.

*†Kenneth Post, Ph. D., Prof. Flor.

*†A. M. S. Pridham, Ph. D., Assoc. Prof. Or-

namental Hort

‡E. F. Schaufler, B. S., Instr. Ornamental

*†W. E. Snyder, Ph. D., Assoc. Prof. Orna-mental Hort.

Food and Nutrition:

*†Catherine J. Personius, Ph. D., Coordinator of Res. in Home Econ., Prof. and Head Dept. of Food and Nutr., Asst. Dir.

*Linnie B. Aitken, M. S., Instr. Food and Nutr

*†Alice M. Briant, Ph. D., Assoc. Prof. Food

TAILCE M. Briant, Ph. D., Assoc. Proj. Food and Nutr.

Mabel E. Doremus, M. A., Asst. Prof. Food and Nutr.

Mrs. Lola T. Dudgeon, M. S., Assoc. Prof. Food and Nutr.

Midred S. Dunn, M. S., Asst. Prof. Food and Nutr.

*†Faith Fenton, Ph. D., Prof. Food and Nutr. *Mrs. Grace Foster, M. A., Assoc. Prof. Food and Nutr.

916781----7

Food and Nutrition-Continued

†Ruth E. Franklin, M. N. S., Res. Assoc. in Food and Nutr. *Hazel M. Hauck, Ph. D., Prof. Food and

Nutr.

†Frances A. Johnston, Ph. D., Assoc. Prof. Food and Nutr. *Nell Mondy, M. A., Instr. Food and Nutr. *Katherine Newman, M. S., Instr. Food and

Nutr.

*Dorothy Peck, M. S., Instr. Food and Nutr. *§Marion C. Pfund, Ph. D., Prof. Food and

Nutr. *Helen Pilcher, M. N. S., Instr. Food and

Nutr. *Mrs. Isobel G. Searls, M. S., Instr. Food

and Nutr.

‡Lillian Shaben, M. A., Assoc. Prof. Food and Nutr.

†Betty Steele, Ph. D., Asst. Prof. Food and

Nutr. *Grace Steininger, Ph. D., Prof. Food and Nutr.

‡Elizabeth J. Vollmer, B. S., Instr. Food and Nutr. \$\ Therese E. Wood, M. A., Assoc. Prof. Food

and Nutr.
*†Charlotte Young, Ph. D., Assoc. Prof. Food and Nutr.

Home Economics Education:

*†Margaret Hutchins, Ph. D., Prof. and Head

of Dept. *†Sara E. Blackwell, M. S., Asst. Prof. Home Econ. Ed. *Carolyn H. Crawford, M. S., Asst. Prof.

Home Econ. Ed.

*Mrs. Helen P. Hoefer, M. S., Assoc. Prof.
Home Econ. Ed.

*Helen E. Moser, M. A., Asst. Prof. Home

Econ. Ed. *†Irene Patterson, M. S., Assoc. Prof. Home Econ. Ed.

Hotel Administration:

*H. B. Meek, Ph. D., Sc. D., Dir. of School and Prof. Hotel Admin. *J. H. Barrett, M. S., Instr. Hotel Admin. *P. R. Broten, B. S., Instr. Hotel Admin. *C. E. Cladel, M. S., C. P. A., Assoc. Prof. Hotel Admin.

Hotel Admin.

*J. W. Connor, B. S., Actg. Asst. Prof. Hotel Admin., Mgr. of Statler Club and Inn.

*John Courtney, M. S., Assoc. Prof. Hotel Admin

*Myrtle H. Ericson, M. S., Asst. Prof. Hotel Admin.

*Valerie Gyrisco, M. S., Instr. Hotel Admin.
*Elizabeth Kaiser, M. S., Instr. Hotel Admin.
*G. W. Lattin, Ph. D., Asst. Prof. Hotel Admin.
*Howard Nelson, M. S., Asst. Prof. Hotel

Admin

*Mrs. Helen J. Recknagel, M. A., Assoc.

Prof. Hotel Admin.
*Thomas Silk, M. S., Assoc. Prof. Hotel Admin.

*Louis Toth, C. P. A., Asst. Prof. Hotel Admin.

Housing and Design:

*†Virginia True, M. F. A., Prof. and Head of Dept. †G. H. Beyer, A. M., Prof. Housing and

†G. H. Beyer, A. Design.

*Helen J. Cady, M. F. A., Assoc. Prof.

Housing and Design.

*Joseph Carreiro, B. S., Instr. Housing and

Design. ‡Mrs. Ruth B. Comstock, M. A., Assoc. Prof.

Housing and Design.
*Catherine Eichelberger, M. A., Assoc. Prof.

Housing and Design.
*Mrs. Dora W. Erway, Assoc. Prof. Housing and Design. ‡Ruby M. Loper, B. S., Assoc. Prof. Housing

and Design.

*James Montgomery, Ph. D., Assoc. Prof. Housing and Design.

Housing and Design-Continued

*Sarah Neblett, M. A., Assoc. Prof. Housing

and Design.

*Clara Straight, M. F. A., Instr. Housing and Design.

‡Dorothy Udall, M. S., Actg. Asst. Prof. Housing and Design.

*Chal Willeman Dh. P. Assoc Prof. House.

*Mabel Wilkerson, Ph. B., Assoc. Prof. Hous-

ing and Design. ‡Florence E. Wright, M. S., Assoc. Prof. Housing and Design.

Institution Management:

*†Katharine W. Harris, M. A., Prof. and Head of Dept. *Gertrude Blaker, J. S., Instr. Institution

Mgt.

‡Agnes Carlson, B. S., Asst. Prof. Institution Mgt.

*Kathleen L. Cutlar, M. S., Assoc. Prof. In-stitution Mgt. and Asst. Mgr. Cafeteria. †Karla Longree, Ph. D., Assoc. Prof. Insti-

tution Mgt.
*Aimee N. Moore, M. A., Asst. Prof. Institution Mgt. and Asst. Mgr. Cajeteria.
*Martha Myer, B. S., Asst. Mgr. Cafeteria.
*Marlan Neidert, M. S., Assoc. Prof. Institution Mgt. and Mgr. Cafeteria.

Dorothy M. Proud, M. S., Assoc. Prof. Institution Mgt.

tution Mgt.
*Helen Ripley, M. S., Assoc. Prof. Institu-

tion Mgt.

Liberty Hyde Bailey Hortorium:

Bailey Hortorium.

†Ethel Z. Bailey, A. B., Curator, Bailey Hortorium.

*†G. H. M. Lawrence, Ph. D., Prof. Bot., Bailey Hortorium. †H. E. Moore, Jr., Ph. D., Asst. Prof. Bot.,

Plant Breeding:

*†S. S. Atwood, Ph. D., Prof. and Head of Dept.

*†R. L. Cushing, M. S., Assoc. Prof. Plant Brdg.

*†W. T. Federer, Ph. D., Prof. Biol. Stat., Biometric Service Unit.

†N. F. Jensen, Ph. D., Assoc. Prof. Plant Brdg. ‡A. A. Johnson, M. S., Prof. Plant Brdg. †J. R. Livermore, Ph. D., Assoc. Prof. Plant

*†J. R. Livermore, Ph. D., Account Prof. Brdg.

*†H. M. Munger, Ph. D., Prof. Plant Brdg.
and Veg. Crops.

†R. P. Murphy, Ph. D., Prof. Plant Brdg.

*†H. H. Smith, Ph. D., Prof. Plant Brdg.

*†A. M. Srb, Ph. D., Assoc. Prof. Plant Brdg.

*†R. G. Wiggans, Ph. D., Prof. Plant Brdg.

Plant Pathology:

*†‡G. C. Kent, Ph. D., Prof. and Head of Dept

Dept.

†F. M. Blodgett, Ph. D., Prof. Plant Path.

†C. W. Boothroyd, Ph. D., Asst. Prof. Plant Path.

†W. H. Burkholder, Ph. D., Prof. Plant Path.

†A. B. Burrell, Ph. D., Prof. Plant Path.

*†A. B. Burrell, Ph. D., Prof. Plant Path.
†Charles Chupp, Ph. D., Prof. Plant Path.
†H. S. Cunningham, Ph. D., Assoc. Prof.
Plant Path. (P. O., Riverhead).
*†A. W. Dimock, Ph. D., Prof. Plant Path.
†‡K. H. Fernow, Ph. D., Assoc. Prof. Plant
Path.

A. Foster, Ph. D., Assoc. Prof. Plant Path. (P. O., Farmingdale). A. Hutchinson, Ph. D., Actg. Prof. Plant Path.

Path.

†Bert Lear, Ph. D., Asst. Prof. Plant Path.

†B. F. Lownsbery, Jr., Ph. D., Asst. Prof. Plant Path. (P. O., Hicksville and Washington, D. C.).

†W. F. Mai, Ph. D., Assoc. Prof. Plant Path.

†L. M. Massey, Ph. D., Prof. Plant Path.

†W. D. Mills, Ph. D., Prof. Plant Path.

†A. G. Newhall, Ph. D., Prof. Plant Path.

Plant Pathology-Continued

† || K. G. Parker, Ph. D., Assoc. Prof. Plant Path.

Path.
†L. C. Peterson, Ph. D., Assoc. Prof. Plant
Path.
†Donald Reddick, Ph. D., Prof. Plant Path.
*†A. F. Ross, Ph. D., Prof. Plant Path.
*†L. J. Tyler, Ph. D., Prof. Plant Path.
†D. S. Welch, Ph. D., Prof. Plant Path.
†R. E. Wilkinson, Ph. D., Asst. Prof. Plant
Path. Path.

†C. E. Williamson, Ph. D., Asst. Prof. Plant Path. (P. O., Farmingdale).

Pomology:

*† A. J. Heinicke, Ph. D., Prof. and Head of

†‡A. J. Heinicke, Fh. E.,

*Dept.

†Damon Boynton, Ph. D., Prof. Pomol.

†L. J. Edgerton, Ph. D., Assoc. Prof. Pomol.

†E. G. Fisher, Ph. D., Asst. Prof. Pomol.

†M. B. Hoffman, Ph. D., Prof. Pomol.

*†R. M. Smock, Ph. D., Prof. Pomol.

Poultry Husbandry:

*†‡J. H. Bruckner, Ph. D., Prof. and Head of Dept.

Dept.

‡R. C. Baker, M. S., Asst. Prof. Poultry Husb.

†H. E. Botsford, B. S., Prof. Poultry Husb.

‡\$R. K. Cole, Ph. D., Assoc. Prof. Poultry Husb. and An. Genetics.

‡\$G. O. Hall, Ph. D., Prof. Poultry Husb.

‡\$G. F. Heuser, Ph. D., Prof. Poultry Husb.

‡\$F. W. Hill, Ph. D., Assoc. Prof. Poultry Husb.

‡\$F. W. Huse, And An. Nutr.

‡\$L. M. Hurd, Assoc. Prof. Poultry Husb.

‡\$F. B. Hutt, Ph. D., D. Sc., Prof. An. Genetics.

netics.

*†L. C. Norris, Ph. D., Prof. Nutr.

‡R. C. Ogle, Assoc. Prof. Poultry Husb.

†A. L. Romanoff, Ph. D., Prof. Chem. Embryology.

†M. L. Scott, Ph. D., Assoc. Prof. An. Nutr. and Poultry Husb.
†‡E. Y. Smith, B. S., Assoc. Prof. Poultry Husb.

tL. E. Weaver, M. S., Assoc. Prof. Poultry Husb.

Sociology (Rural):

*†‡R. A. Polson, Ph. D., Prof. and Head of Dept.

*†§W. A. Anderson, Ph. D., Prof. Rural Sociol.

†M. Blanche Armstrong, M. S., Actg. Asst.

Prof. Rural Sociol.

‡R. C. Clark, Jr., Ph. D., Assoc. Prof. Rural

Sociol.

*Mary E. Duthie, Ph. D., Assoc. Prof. Rural Sociol.

*Mrs. Frances A. Hall, M. S., Actg. Asst. Prof. Rural Sociol.

*†O. F. Larson, Ph. D., Prof. Rural Sociol.

*†W. W. Reeder, Ph. D., Asst. Prof. Rural

Sociol.

‡Bernice M. Scott, B. S. M., Instr. Rural

18H. E. Thomas, Ph. D., Assoc. Prof. Rural Sociol.

Textiles and Clothing:

*†Beulah Blackmore, B. S., Prof. and Head

of Dept. *Eleanore Adam, M. A., Instr. Textiles and

*Mrs. Gladys L. Butt, M. A., Assoc. Prof. Textiles and Clothing.

*Vilma Golde, M. A., Asst. Prof. Textiles and Clothing.

*Margaret L. Humphrey, M. S., Assoc. Prof.

Textiles and Olothing.

*Mrs. Elsie McMurry, M. A., Assoc. Prof. Textiles and Olothing.

‡Anita Morris, M. S., Asst. Prof. Textiles and Olothing.

‡Janet Reed, B. S., Instr. Textiles and Olothing. Clothing.

Textiles and Clothing-Continued

extiles and Clothing—Continued

†Mrs. Mary Ryan, Ph. D., Asst. Prof. Textiles and Clothing.

*Ruth J. Scott, B. S., Assoc. Prof. Textiles
and Clothing.

*Ora K. Singleton, M. A., Asst. Prof. Textiles and Clothing.

†Mrs. Helen P. Smith, B. S., Assoc. Prof.
Textiles and Clothing.

*Jane Werden, Ph. D., Assoc. Prof. Textiles and Clothing.

*Mary V. White, M. S., Asst. Prof. Textiles
and Clothing.

‡Frances Young, M. A., Asst. Prof. Textiles
and Clothing. and Clothing.

Vegetable Crops:

vegetable Crops:

*†#H. C. Thompson, Ph. D., Prof. and Head
Dept. of Veg. Crops.

†#H. J. Carew, Ph. D., Assoc. Prof. Veg.
Crops.

†J. H. Ellison, Ph. D., Asst. Prof. Veg.
Crops (P. O., Riverhead).

*†#E. V. Hardenburg, Ph. D., Prof. Veg. Crops.

†W. C. Jacob, Ph. D., Assoc. Prof. Veg.
Crops (P. O., Riverhead).

†W. C. Jacob, Ph. D., Assoc. Prof. Veg.
Crops (P. O., Riverhead).

†G. A. Johannessen. Ph. D.. Asst. Prof. Vea.

†G. A. Johannessen, Ph. D., Asst. Prof. Veg. Crops and Pomol.
†W. C. Kelly, Ph. D., Asst. Prof. Veg. Crops.
†M. W. Meadows, Ph. D., Asst. Prof. Veg.

Crops.

‡A. J. Pratt, Ph. D., Prof. Veg. Crops. *†G. J. Raleigh, Ph. D., Prof. Veg. Crops. ‡C. B. Raymond, B. S., Assoc. Prof. Veg. Crops.

*†Ora Smith, Ph. D., Prof. Veg. Crops.

Vegetable Crops—Continued

*†R. D. Sweet, Ph. D., Assoc. Prof. Veg. Crops.

††Raul Work, Ph. D., Prof. Veg. Crops.

††T. N. York, Ph. D., Asst. Prof. Veg. Crops.
and Plant Brdg.

Miscellaneous:

**Miscellaneous:

*Phyllis Atzenhoffer, M. A., Instr. Home Econ. and Student Counselor.

*Leigh H. Harden, M. S., Assoc. Prof. Personnel Admin., Admission Secy. (Agr.).

*J. P. Hertel, Ph. D., Prof. Personnel Admin. and Secy. (Agr.).

*STheresa R. Humphreyville, M. A., Asst. Prof. Home Econ.

*Olive McIntosh, M. A., Instr. Home Econ. and Student Counselor.

*Caroline Morton, M. A., Assoc. Prof. Home Econ., Asst. to the Dean.

*†A. H. Peterson, M. A., Assoc. Dir. Finance and Prof. Business Admin.

*Joan Poindexter, M. A., Instr. Home Econ. and Student Counselor.

*†Whiton Powell, Ph. D., Agr. Libr. and Prof. Business Mgt.

*Mrs. Jeanette Read, A. M., Asst. Prof. Home Econ. and Student Counselor.

*S. R. Shapley, B. S., Prof. Farm Pract. and Farm Superintendence.

*Esther Stocks, M. A., Assoc. Prof. Home Econ., Secy. of the Coll., and Placement Secy.

*H. S. Tyler, Ph. D. Prof. Personnel Admin.

Secy.

*H. S. Tyler, Ph. D., Prof. Personnel Admin.,
Voc. Guidance and Placement Secy.

(Agr.). *†Vivian N. ivian N. Warters, M. A., Assoc. Prof. Home Econ., Libr., Coll. of Econ.

New York State Agricultural Experiment Station, Geneva

tion staff. Leave of absence. †A. J. Heinicke, Ph. D., Director. †Station staff.

Editorial:

†J. D. Luckett, M. S., Prof. and Editor.

Entomology:

†P. J. Chapman, Ph. D., Prof. and Head of Div.

Div.

†J. A. Adams, Ph. D., Assoc. Prof. Ent.
(P. O., Poughkeepste).

†A. C. Davis, Ph. D., Asst. Prof. Ent.
†R. W. Dean, Ph. D., Assoc. Prof. Ent.
(P. O., Poughkeepste).

†F. L. Gambrell, Ph. D., Assoc. Prof. Ent.
†E. H. Glass, Ph. D., Assoc. Prof. Ent.
†G. E. R. Hervey, Ph. D., Prof. Ent.
†S. E. Lienk, Ph. D., Res. Assoc. Ent.
†F. G. Mundinger, M. S., Assoc. Prof. Ent.
†E. H. Smith, Ph. D., Asst. Prof. Ent.
†E. H. Smith, Ph. D., Asst. Prof. Ent.

Food Science and Technology:

†D. B. Hand, Ph. D., Prof. and Head of Div. †Margaret N. Albury, B. A., Res. Asst.

†Margaret N. Albury, B. A., Res. Asst. Chem.
†A. W. Avens, Ph. D., Assoc. Prof. Chem.
†C. R. Bigelow, M. A., Res. Assoc. Chem.
†F. P. Boyle, Ph. D., Asst. Prof. Chem.
†D. C. Carpenter, Ph. D., Prof. Chem.
†H. K. Durfee, B. A., Res. Asst. Chem.
†S. D. Gibbs, B. S., Res. Assoc. Chem.
†J. C. Hening, M. S., Asst. Prof. Chem.
†A. W. Hofer, Ph. D., Asst. Prof. Bact.
†Ann D. Holley, M. S., Res. Assoc. Chem.
†R. W. Holley, Ph. D., Asst. Prof. Chem.
†G. J. Hucker, Ph. D., Prof. Bact.
†\$Z. I. Kertesz, Ph. D., Prof. Chem.
†P. H. Kirchner, B. E. E., Res. Assoc. Chem.
†R. L. LaBelle, B. C. E., Res. Assoc. Chem.
†F. A. Lee, Ph. D., Asst. Prof. Chem.
†G. L. Mack, Ph. D., Asst. Prof. Chem.
†G. L. Mack, Ph. D., Asst. Prof. Chem.
†A. M. Mattson, Ph. D., Chem. Microscopist.
†Helen A. McCullough, B. S., Res. Asst.

†J. C. Moyer, Ph. D., Assoc. Prof. Chem.

Food Science and Technology-Continued

†§G. W. Pearce, Ph. D., Assoc. Prof. Chem. †C. S. Pederson, Ph. D., Prof. Bact. †W. B. Robinson, Ph. D., Asst. Prof. Chem. †A. C. Wagenknecht, Ph. D., Asst. Prof. Chem.
†Joanne E. Whitcombe, B. A., Res. Asst.

Chem. †T. Wishnetsky, M. F. S., Res. Assoc. Chem.

Plant Pathology:

†A. J. Braun, Ph. D., Asst. Prof. Plant Path.
†R. M. Gilmer, Ph. D., Asst. Prof. Plant

†J. M. Hamilton, Ph. D., Prof. Plant Path. †D. H. Palmiter, Ph. D., Prof. Plant Path. (P. O., Poughkeepsie). †W. T. Schroeder, Ph. D., Asst. Prof. Plant

Path.

Pomology:

†A. J. Heinicke, Ph. D., Prof. and Head of Div.

†Richard Wellington, M. S., Prof. and Assoc. Head of Div.

Head of Div.

†L. C. Anderson, B. S., Assoc. Prof. Pomol. (P. O., Claverack).

†K. D. Brase, M. S., Res. Assoc. Pomol. †J. C. Cain, Ph. D., Assoc. Prof. Pomol. †J. C. Cain, Ph. D., Assoc. Prof. Pomol. †John Elinset, Ph. D., Assoc. Prof. Pomol. †John Elinset, Ph. D., Assoc. Prof. Pomol. †J. D. Harlan, B. S., Assoc. Prof. Pomol. †K. H. Kimball, M. S., Res. Assoc. Pomol. †L. G. Klein, B. S., Res. Assoc. Pomol. †Mrs. Barbara I. Lamb, B. S., Res. Asst. Pomol.

Pomol.

†R. C. Lamb, M. S., Asst. Prof. Pomol. †D. R. Rodney, M. S., Asst. Prof. Pomol. †N. J. Shaulis, Ph. D., Prof. Pomol. †G. L. Slate, M. S., Assoc. Prof. Pomol. †J. P. Watson, M. S., Res. Assoc. Pomol.

Seed Investigations:

- †M. T. Munn, M. S., Prof. and Head of Div. †B. E. Clark, Ph. D., Asst. Prof. Seed Invest. †W. F. Crosier, Ph. D., Assoc. Prof. Seed Invest. †C. E. Heit, B. S., Res. Assoc. Seed Invest. †S. R. Patrick, B. S., Res. Assoc. Seed In-
- vest.

Vegetable Crops:

- †C. B. Sayre, M. S., Prof. and Head of Div. †M. E. Patterson, B. S., Res. Assoc. in Veg. Crops.
 T. Tapley, M. S., Assoc. Prof. Veg.
- Crops.
 T. Vittum, Ph. D., Asst. Prof. Veg.

NORTH CAROLINA

North Carolina State College of Agriculture and Engineering and the Agricultural Experiment Station of the University of North Carolina, State College Station, Raleigh

*College faculty. †Station staff. ||Military leave. ‡Extension staff.

- *Gordon Gray, LL. B., President of University (P. O., Chapel Hill).

 *J. W. Harrelson, M. E., LL. D., Chancellor.

 *†J. H. Hilton, D. Sc., Dean School of Agr., Prof. An. Indus.

 *†C. H. Bostian, Ph. D., Dir. of Resident Instr., Prof. Zool.

 *†R. W. Cummings, Ph. D., Dir. of Res., Prof. Agron.

 †D. S. Weaver, M. S., Dir. of Ext. Service.

 *†D. B. Anderson, Ph. D., Assoc. Dean Grad. School, Head of Div. Biol. Sci.

 *†J. G. Vann, Asst. Controller.

Agronomy:

- *†W. E. Colwell, Ph. D., Prof. and Head of Dept. (Coop. U. S. D. A.).

 ‡F. J. Bell, Ph. D., Ext. Assoc. Prof.

 ‡R. R. Bennett, B. S., Ext. Assoc. Prof.

 **Description of the Prof. Coop. Accept the Coop.
- *†D. S. Chamblee, Ph. D., Asst. Prof. Agron.
- (Forage Orops).

 †W. V. Chandler, M. S., Res. Asst. Prof. Agron. (Goop. U. S. D. A.).

 ‡E. R. Collins, Ph. D., Ext. Prof. in charge

- ‡E. R. Collins, Ph. D., Ext. Prof. in charge Agron Ext.
 †H. L. Cooke, B. S., Asst. Prof. Agron.
 †T. L. Copley, M. S., Res. Assoc. Prof. Agron.
 (Soit Conserv.: Coop. U. S. D. A.).
 ‡R. H. Crouse, B. S., Ext. Assoc. Prof. Turkish Tobacco.

 ‡J. F. Doggett, B. S., Ext. Assoc. Prof. Soil Conserv.
- Conserv.

- Conserv.

 ‡S. H. Dobson, B. S., Ext. Assoc. Prof. Forage Crops.

 †H. J. Evans, Ph. D., Res. Asst. Prof. Agron.

 (Soil Conserv.: Coop. U. S. D. A.).

 †D. U. Gerstel, Ph. D., Res. Asst. Prof.

 †M. J. Gilbert, B. S., Res. Instr. Agron.

 †E. F. Goldston, B. S., Res. Asst. Prof. Soils

 (Soil Survey).

 †W. C. Gregorv. Ph. D. Prof. Agron. (Pea-

- (Soit Survey).

 †W. C. Gregory, Ph. D., Prof. Agron. (Peanut Brdg.).

 †J. L. Hall, M. A., Res. Instr. Agron. (Coop. U. S. D. A.).

 †N. S. Hall, Ph. D., Res. Prof. Agron.

 †R. O. Hammons, M. S., Res. Instr. Agron.

 †C. H. Hanson, M. S., Res. Asst. Prof. Agron.

 (Coop. U. S. D. A.).

 †P. H. Harvey, Ph. D., Res. Prof. Agron.

 (Corn Brdg.: Coop. U. S. D. A.).

 ‡S. N. Hawks, B. S., Ext. Asst. Prof. Tobacco.

 †H. W. Johnson, Ph. D., Res. Asst. Prof. Agron. (Forage Crops: Coop. U. S. D. A.).

 - †D. A.).
 †D. L. Kaster, B. S., Res. Instr.
 †P. H. Kime, M. S., M. Agr., Res. Assoc.
 Prof. Agron. (Cotton Brdg.: Coop. U. S.
- Prof. Agron. (Cotton Brag.: Uoop. U. S. D. A.).

 *†G.C. Klingman, Ph. D., Assoc. Prof. Agron.

 *†W. D. Lee, B. S., Assoc. Prof. Agron. (Soil Survey: Coop. U. S. D. A.).

 *†J. F. Lutz, Ph. D., Prof. Agron. (Soils).

 *†T. J. Mann, Ph. D., Res. Asst. Prof.

 *†C. D. McAuliffe, Ph. D., Res. Asst. Prof.

 †S. B. McCaleb, Ph. D., Res. Asst. Prof.

 †C. B. McCalts, M. S., Res. Instr.

 †A. C. McClung, Ph. D., Res. Asst. Prof.

 †F. W. McLaughlin, B. S., Res. Instr. Agron.

 †R. W. McMillen, M. S., Res. Asst. Prof.

 Agron.

- tC. Z. McSwain, Jr., B. S., Reg. Instr.

Agronomy—Continued

- †Adolf Mehlich, Ph. D., Res. Assoc. Prof. Agron. (Soil Chem.).

 ††G. K. Middleton, Ph. D., Prof.

 ††E. V. Miller, Ph. D., Res. Assoc. Prof.

 †R. P. Moore, Ph. D., Res. Prof. and Dir.

 Seed Improvement.

 †W. L. Nelson, Ph. D., Prof. Agron. (Soil

 Fert.), Dir. Soil Testing Lab., Coop.

 NCDA.

 † R. P. Piland, M. S. Assoc. Prof. Agron.

- †J. R. Piland, M. S., Assoc. Prof. Agron. (Soit Uhem.).
 †W. H. Rankin, M. S., Res. Assoc. Prof. Agron. (Soit Fert.).
 †O. H. Ross, Jr., B. S., Res. Instr. Agron. (Coop. U. S. D. A.).
 ‡J. A. Shanklin, M. S., Ext. Assoc. Prof. Cotton (Coop. U. S. D. A.).
 *†B. W. Smith, Ph. D., Assoc. Prof. Agron. (Forage Crops Brdg.).
 *†S. G. Stephens, Ph. D., Res. Prof. Agron. (Coop. U. S. D. A.).
 *†S. L. Tisdale, Ph. D., Res. Asst. Prof. Agron.
- †S. L. Tisdale, Ph. D., Kes. Asst. Proj. Agron.
 †R. P. Upchurch, M. S., Res. Instr. Agron.
 †G. H. M. van Bavel, Ph. D., Res. Asst. Prof. Th. W. Weldon, B. S., Res. Asst. Prof. Agron. (P. O., Oxford).
 †Gladys West. Ph. D., Res. Asst. Prof. (Coop. U. S. D. A.).
 †J. A. Weybrew, Ph. D., Res. Prof. Agron. (Tahacca).

- †J. A. Weydrew, Ph. D., Kes. Proj. Agron. (Tobacco).
 †J. C. Williams, B. S., Res. Instr. (Coop. U. S. D. A.).
 †W. G. Woltz, Ph. D., Res. Prof. Agron. (Tobacco).
 *†W. W. Woodhouse, Jr., Ph. D., Res. Prof. Agron. (Soil Fert.).
 *†E. T. York, Jr., Ph. D., Res. Assoc. Prof. Agron.
- Agron.

Animal Industry:

- *†D. W. Colvard, Ph. D., Prof. and Head of Dept.
- ‡A. V. Allen, M. S., Ext. Assoc. Prof. An. Husb. *†J. P. Ammerman, B. S., Asst. Prof. An.
- ‡J. A. Arey, M. S., Ext. Prof. in charge Dairy Ext.
 †L. W. Aurand, Ph. D., Res. Asst. Prof. Dairy Mfg.
 *†E. R. Barrick, Ph. D., Res. Assoc. Prof. An. Huch.
- Husb.
- *†T. N. Blumer, B. S., Assoc. Prof. An. Husb. ‡J. F. Brown, B. S., Assoc. Prof. Dairy Ext. ‡J. S. Buchanan, B. S., Ext. Assoc. Prof.
- *†R. B. Casady, Ph. D., Res. Asst. Prof. Vet.

Animal Industry-Continued

‡W. L. Clevenger, M. S., Prof. Dairy Mfg.

Ext.
†R. N. Costilow, B. S., Res. Instr. An. Husb.
†E. U. Dillard, M. S., Res. Asst. Prof. An.
Husb. (Coop. U. S. D. A.).
†E. W. Faires, B. S., Res. Asst. Prof. Dairying (Coop. U. S. D. A.: P. O., Willard).
‡F. R. Farnham, Ext. Assoc. Prof. Dairying.
†Lemuel Goode, M. S., Asst. Prof. An. Husb.
†C. D. Grinnells, D. V. M., M. S., Prof. Dairy Husb.

*†C. D. Grilnells, D. v. M., M. S., Prof.
Husb.

*F. M. Haig, M. S., Prof. Dairy Husb.

*†E. H. Hostetler, M. S., M. Agr., Prof. and
Head An. Husb. Sect.

*R. N. Jarvis, B. S., Res. Instr. Dairy Husb.
(P. O., Waynesville).

‡Jack Kelly, M. S., Ext. Prof. in charge An.
Husb.

Husb.

†A. C. Kimrey, A. B., Ext. Assoc. Prof. Dairying.
†J. E. Legates, Ph. D., Asst. Prof. Dairy Husb.

† Gennard Matrone, M. S., Res. Instr. An. Nutr. (Coop. U. S. D. A.). †J. L. Moore, M. S., Res. Asst. Prof. Dairy

Husb.

*Husb.

*†R. M. Myers, M. S., Instr. Dairy Husb.

†J. C. Osborne, M. S., D. V. M., Res. Assoc.

Prof. and Head Vet. Sect.

‡R. R. Rich, B. S., Ext. Asst. Prof. Dairying.

†W. M. Roberts, Ph. D., Prof. and Head

Sect. of Dairy Mfg.

*†F. W. Sherwood, Ph. D., Res. Prof. An.

Nutr

*†F. W. Sherwood, Ph. D., Res. Prof. An. Nutr.
†W. W. G. Smart, M. S., Instr. An. Nutr.
†F. H. Smith, M. S., Res. Assoc. Prof. An.

Nutr. L. L. Speck, Ph. D., Assoc. Prof. Dairy *†M.

*†M. L. Speck, Ph. D., Assoc. Prof. Dairy

*†H. A. Stewart, Ph. D., Prof. An. Husb.
†S. B. Tove, Ph. D., Res. Asst. Prof. An.

Nutr.

*†tW. E. Tyler, M. S., Res. Asst. Prof. An.

*†E. G. Warren, Ph. D., Assoc. Prof. Dairy

Mfg.

*†R. K. Waugh, Ph. D., Prof. and Head Sect.

of Dairy Husb.

*†G. H. Wise, Ph. D., Prof. and Head Sect.

of An. Nutr. of An. Nutr.

Biological Sciences:

*†D. B. Anderson, Ph. D., Prof. and Head of Div., Assoc. Dean of Grad. School.
†J. L. Allison, Ph. D., Res. Prof. Plant Path.
(Coop. U. S. D. A.).
*Ernest Ball, Ph. D., Assoc. Prof.
†F. S. Barkalow, Jr., Ph. D., Prof. and Head of Zool.
*†C. H. Bostian, Ph. D., Prof. Zool.
*B. B. Brandt, Ph. D., Prof. Zool.
*†C. N. Clayton, Ph. D., Prof. Plant Path.
†W. E. Cooper, M. S., Res. Asst. Prof. Plant Path. Path

‡T. M. Dobrovsky, Ph. D., Ext. Asst. Prof.

*†D. E. Ellis, M. S., Prof. Plant Path.

*J. L. Evers, Ph. D., Assoc. Prof. Zool.

†H. C. Fink, Ph., D., Res. Asst. Prof. (P. O.,

Hendersonville).

**W. B. Fox, Ph. D., Asst. Prof. Bot. †O. H. Fullmer, Res. Asst. Prof. Ent. *†B. B. Fulton, Ph. D., Prof. Ent. *H. R. Garris, M. S., Ext. Assoc. Prof. Plant Path.

*R. K. Godfrey, M. S., Asst. Prof. Bot. *D. S. Grosch, Ph. D., Assoc. Prof. Zool. *Reinard Harkema, Ph. D., Prof. Zool. *†T. T. Hebert, M. S., Res. Asst. Prof. Plant

Path.

*† J. H. Jensen, Ph. D., Prof. and Head of Plant Path. ‡G. D. Jones, M. A., Ext. Prof. in charge of

Ext. Ent. *†Arthur Kelman, Ph. D., Asst. Prof. Plant Path.

Biological Sciences-Continued

**W. M. Kulash, Ph. D., Assoc. Prof. Ent.

*†S. G. Lehman, Ph. D., Prof. Plant Path.

†G. B. Lucas, Ph. D., Res. Asst. Prof. Plant

Path. (P. O., Oxford).

*Z. P. Metcalf, D. Sc., Prof. Zool.

*T. B. Mitchell, D. Sc., Prof. Ent.

†E. L. Moore, Ph. D., Res. Asst. Prof. Plant

Path. (Coop. U. S. D. A.: P. O., Oxford).

†J. G. Moseman, M. S., Plant Path. (Coop.

U. S. D. A.).

†J. G. Moseman, M. S., Putti Futh. (Coop. U. S. D. A.).

*†L. W. Nielsen, Ph. D., Res. Assoc. Prof. Plant Path.

*†C. J. Nusbaum, Ph. D., Res. Prof. Plant Path.

Path.

J. E. O'Connell, M. S., Instr. Bot.

L. H. Person, Ph. D., Plant Path. (Coop.
U. S. D. A.).

T. L. Quay, M. S., Assoc. Prof. Zool.

P. O. Ritcher, Ph. D., Res. Prof. Ent.

H. T. Scofield, Ph. D., Prof. and Head of

*H. T. Scofield, Ph. D., Prof. and Head of Bot.

*I. V. D. Shunk, Ph. D., Prof. Bot.

*†C. F. Smith, Ph. D., Prof. and Head of Ent.

‡W. A. Stephen, M. S., Asst. Prof. Ext.

Ent.

†F. A. Todd, B. S., Res. Asst. Prof. Plant

Path. (Coop. U. S. D. A.).

†H. K. Townes, Jr., Ph. D., Res. Prof. Ent.

†G. F. Turnipsed, B. S., Res. Asst. Prof.

Ent. (P. Ö., Moravian Falls).

*B. W. Wells, Ph. D., Prof. Bot.

‡J. C. Wells, M. S. A., Ext. Asst. Prof. Plant

Path.

‡L. C. Whitehead, M. S., Biol., in charge of

L. C. Whitehead, M. S., Biol., in charge of Rodent Control (Coop. U. S. D. A.).
 L. A. Whitford, Ph. D., Assoc. Prof. Bot.
 M. W. Wing, B. S., Asst. Prof. Zool.

Chemistry:

*†W._J. Peterson, Ph. D., Prof. and Head of

Dept.

*T. J. Blalock, M. A., Instr. Chem.

*D. O. Daniel, B. S., Instr. Chem.

*W. P. Ingram, Jr., B. S., Instr. Chem.

*C. W. Jennings, M. S., Asst. Prof. Phys.

*W. P. Ingram, Jr., B. S., Instr. Chem.

*W. P. Ingram, Jr., B. S., Instr. Chem.

*W. E. Jordan, M. S., Assoc. Prof. Chem.

*R. H. Leoppert, Ph. D., Assoc. Prof. Chem.

*†W. L. Lott, Ph. D., Res. Prof. Chem.

*J. W. Marek, M. S., Instr. Chem.

*J. W. Morgan, A. M., Instr. Chem.

*J. W. Morgan, A. M., Instr. Chem.

*C. S. Nevin, Ph. D., Asst. Prof. Biochem.

*G. M. Oliver, M. S., Instr. Chem.

*J. C. Potter, Ph. D., Asst. Prof. Chem.

*W. A. Reid, Ph. D., Prof. Chem.

*C. C. Robinson, Ph. D., Assoc. Prof. Chem.

*M. F. Showalter, M. S., Assoc. Prof. Chem.

*M. F. Showalter, M. S., Assoc. Prof. Chem.

*H. P. Sutton, Ph. D., Prof. Chem.

*R. C. White, Ph. D., Asst. Prof. Chem.

*R. C. White, Ph. D., Asst. Prof. Chem.

Economics (Agr.):

*†H. B. James, Ph. D., Prof. and Head of *†H. B. James, Ph. D., Proj. and Head of Dept.

‡G. S. Abshier, Ph. D., Ext. Assoc. Prof. Mktg.

*†C. E. Bishop, M. S., Res. Asst. Prof.

*‡D. D. Brown, D. P. A., Assoc. Prof. Farm

Mgt

‡C. E. Clark, M. S., Ext. Asst. Prof. Farm Mgt.

‡W. B. Collins, B. S., Ext. Assoc. Prof. Farm Mgt.

*†W. P. Cotton, Ph. D., Res. Assoc. Prof. Agr. Econ. ‡J. W. Crawford, B. S., Ext. Assoc. Prof.

Program Planning. *†Margaret K. Fleming, B. A., Res. Instr.

*†G. W. Forster, Ph. D., Prof. Agr. Econ. *†R. E. Freund, Ph. D., Assoc. Prof. Agr. Econ. *†R. E. Freund, Ph. D., Assoc. Prof. Agr.

*†L. R. Martin, M. A., Res. Assoc. Prof. Agr. Econ.

Economics (Agr.)—Continued

*†W. W. McPherson, Ph. D., Assoc. Prof.

*†W. W. McPherson, Ph. D., Assoc. Proj. Farm Mgt.

*†W. H. Pierce, M. S., Assoc. Prof. Agr. Econ.

‡C. B. Ratchford, M. S., Prof. in charge Farm Mgt. Ext. and Mktg.

‡Maud K. Schaub, M. S., Ext. Asst. Prof.

Program Planning.

Fred Sloan, B. S., Ext. Prof. and State
Leader Program Planning.

D. S. Stancil, B. S., Ext. Asst. Prof. Cotton $\widetilde{M}ktg$.

†J. G. Sutherland, B. S., Instr. Agr. Econ. (Coop. U. S. D. A.).

‡W. L. Turner, B. S., Ext. Instr. Farm Mgt. M. S. Williams, M. S., Ext. Asst. Prof. Farm Mgt.

Editorial:

*†‡F. H. Jeter, B. S., D. Sc., Dir. Coll. Publicity; Agr. Editor.
‡I. L. Baker, B. A., Asst. Editor.
‡Landis Bennett, Ph. D., Ext. Assoc. Prof.

‡Landis Bennett, Ph. D., Ext. Assoc. Proj. in charge Visual Aid.
†Joe Caldwell, Asst. Editor.
†J. B. Hembree, B. S., Asst. Editor.
†W. S. Humphries, B. A., Asst. Editor.
†J. D. Mattox, Photog.
†R. A. Mills, Jr., Asst. Photog., Visual Aid.
†L. M. Palmer, M. S., Asst. Agr. Editor.

Education:

*J. B. Kirkland, Ph. D., Dean School of Ed. *Roy Anderson, Ph. D., Prof. Occupational Information and Guidance Dir. of Stu-

**Information and Guidance Dir. of Student Personnel.

**L. O. Armstrong, M. S., Prof. Agr. Ed.

**K. L. Barkley, Ph. D., Prof. Psychology.

**L. B. Beres, M. S., Assoc. Prof. Indus. Ed.
and Head of Dept.

**M. D. Caffey, B. S., Asst. Prof. Psychology.

**J. K. Coggin, M. S., Prof. Agr. Ed.

**L. E. Cook, M. S., Prof. and Head Dept. of

*Albert Crawford, B. S., Instr. Indus. and

*Albert Crawford, B. S., Instr. Indus. and Rural Recreation. *T. I. Hines, M. A., Prof. Indus. and Rural Recreation and Head of Dept. *Ivan Hosteller, Ed. D., Prof. Indus. Arts Ed. and Head of Dept. *J. C. Johnson, M. A., Asst. Prof. Psychol-

ogy.
*L. L. Miller, M. A., Assoc. Prof. Indus. and Rural Recreation.

*Rural Recreation.

*D. J. Moffle, Ph. D., Prof. and Head Dept.
of Psychology.

*F. A. Nylund, Ph. D., Assoc. Prof. Agr. Ed.
*H. J. Rust. M. A., Asst. Prof. in Psychology
and English.

*C. C. Scarborough, M. S., Assoc. Prof. Agr.
Ed.

Ĕđ. *Marshall Schmitt, M. A., Assoc. Prof. In-

and Rural Recreation.

*C. C. Stott, B. S., Asst. Prof. of Indus. and Rural Recreation.

*Carl Westberg, Ph. D., Assoc. Prof. Psychology.

Engineering (Agr.):

*†G. W. Giles, M. S., Prof. and Head of Dept. †J. H. Anderson, B. S., Res. Instr. Agr. Engin.

Engin.

*George Blum, B. S., Instr. Agr. Engin.

†O. A. Brown, Ph. D., Res. Prof. Agr. Engin.
(Coop. U. S. D. A.: P. O., Oxford).

‡E. S. Coates, B. S., Ext. Instr. Agr. Engin.

†E. G. Diseker, M. S., Res. Assoc. Prof. Agr.
Engin. (Coop. U. S. D. A.).

‡H. M. Ellis, B. S., Prof. in charge Agr.
Engin. Ext.

†J. C. Erguson, B. S. Ext. Assoc. Prof.

tJ. C. Ferguson, B. S., Ext. Assoc. Prof. Farm Mach.

fF. J. Hassler, Ph. D., Res. Asst. Prof. Agr. Engin. (P. O., Oxford).

*E. L. Howell, B. S., Instr. Agr. Engin.

tR. M. Ritchie, Jr., B. S., Ext. Asst. Prof. Agr. Engin.

Agr. Engin.

Engineering (Agr.)—Continued

*†E. N. Scarborough, M. S., Res. Asst. Prof.

Agr. Engin.

†N. C. Teter, M. S., Assoc. Prof. Agr. Engin.

†S. H. Usry, B. S., Res. Asst. Prof. Agr. Engin. ‡W. C. Warrick, B. S., Ext. Asst. Prof. Agr.

Engin.
*†J. W. Weaver, B. S., Res. Assoc. Prof. Agr.

Engin.
*I. L. Williams, M. S., Assoc. Prof. Agr.

Engin. †J. M. Williams, B. S., Res. Instr. Agr.

Engin. †R. W. Wilson, M. S., Res. Asst. Prof. Agr.

Engin.
*†T. V. Wilson, M. S., Asst. Prof. Agr. Engin.

Entomology-See Biological Sciences.

Extension Administration:

†D. S. Weaver, M. S., Dir. †R. W. Shoffner, B. S., Asst. Dir. †J. W. Goodman, B. S., M. Agr., Asst. Dir. †Ruth A. Current, B. S., State Home Dem.

Agt.

L. R. Harrill, M. S., State Club Leader.

L. R. Bixon, B. S., Asst. Club Leader.

L. B. Dixon, B. S., Asst. Club Leader.

D. F. Holler, B. S., Asst. Club Leader.

Fred Wagoner, B. S., Asst. Club Leader.

Mary S. Moser, B. S., Asst. Club Leader.

Verna Stanton, M. A., Asst. State Home Dem. Aat.

Dem. Agt.

‡L. B. Altman, B. S., Dist. Farm Agt.

‡Anamerle Arant, M. S., Dist. Home Dem.

†C. M. Brickhouse, B. S., Dist. Farm Agt. †Nell I. Kennett, B. S., Dist. Home Dem.

*Agt. ‡Mrs. Verona J. Langford, A. B., Dist. Home Dem. Agt. ‡Lorna Langley, M. S., Dist. Home Dem.

Agt

Agr.
Agr.
Agr.
Agr.
Mrs. Mary L. McAllister, B. S., Dist. Home
Dem. Agt.
†O. F. McCrary, M. S., Dist. Farm Agt.
†C. S. Mintz, B. S., Dist. Farm Agt.
†E. L. Norton, B. S., Dist. Farm Agt.
†Mrs. Esther G. Willis, Dist. Home Dem. Agt.

‡Rowena Dakin, Admin. Asst.

Forestry:

*†R. J. Preston, Jr., M. S. F., Ph. D., Prof. and Head of Dept., Dean School of For. *†J. S. Bethel, D. F., Prof. For. and Wood Technol.

*†R. M. Carter, M. S., Prof. For.; Wood Technol.

Technol.

*J. W. Chalfant, M. F., Assoc. Prof. For.

‡J. E. Ford, B. S. F., Ext. Asst. Prof. For.

‡J. L. Gray, M. F., Prof. in charge Ext. For.

*†C. M. Kaufman, Ph. D., Res. Prof. For.

*W. D. Miller, Ph. D., Assoc. Prof. For.

*G. K. Sloeum, M. S., Assoc. Prof. For.

*Lenthall Wyman, M. F., Prof. For. Utilization.

tion.

Home Economics:

‡Rose E. Bryan, Ext. Prof. Home Mktg. ‡Rita Dubois, M. S., Ext. Assoc. Prof. Nutr. ‡Jane Gibbs, B. S., Ext. Assoc. Prof. Clothing.

Pauline E. Gordon, M. S., Ext. Prof. Home Mgt.

Mgt.

Mgt.

Mrs. Corinne J. Grimsley, M. A., Ext.

Assoc. Prof. Family Relations.

Mary E. Lee, M. S., Ext. Assoc. Prof.

Home Mgt.

Julia McIver, B. S., Ext. Assoc. Clothing.

Nita L. Orr, B. S., Ext. Assoc. Prof. Home Mktg.

‡Mrs. Kay S. Riggle, A. B., Ext. Instr. Home

Mgt. †Mrs. Virginia S. Swain, M. S., Ext. Prof. Family Relations. †Virginia Wilson, M. S., Ext. Prof. Nutr.

Horticulture:

*†M. E. Gardner, B. S., Prof. and Head of

Dept. †W. S. Barham, Ph. D., Res. Asst. Prof.

†T. A. Bell, M. S., Res. Asst. Prof. (Coop. U. S. D. A.).

*†F. D. Cochran, Ph. D., Prof. Hort.; Head Veg. Crops Sect.
†H. M. Covington, M. S., Ext. Assoc. Prof. Hort.

Hort.
†J. L. Etchells, Ph. D., Res. Prof. Bact. in Food Res. (Coop. U. S. D. A.).
‡J. B. Gartner, M. S., Ext. Asst. Prof. Hort.
‡John Harris, B. S., Ext. Assoc. Prof. Hort.
†L. D. Jones, Ph. D., Res. Prof. Hort.
†C. L. McCombs, M. S., Res. Instr. Hort.
†E. B. Morrow, M. S., Assoc. Prof. Hort.
‡H. R. Niswonger, M. A., Ext. Prof. in charge Ext. Hort.

T. B. Morrow, M. S., Assoc. 1707. In.
T. R. Niswonger, M. A., Ext. Prof. in.
charge Ext. Hort.
T. T. Pope, M. S., Res. Assoc. Prof. Hort.
G. O. Randall, M. S., Prof. Hort.
Robert Schmidt, B. S., Assoc. Prof. Hort.
G. W. Schneider, Ph. D., Res. Assoc. Prof.

†G. W. Schneider, Ph. D., Ros.

Hort.
†V. H. Underwood, B. S., Res. Instr. Hort.
†N. A. Vanasse, M. S., Res. Asst. Prof. Hort.
†C. F. Williams, M. S., Res. Assoc. Prof.

Hort. (Coop. U. S. D. A.).

Poultry Science:

*†R. S. Dearstyne, M. S., Prof. and Head of Dept. ‡W. G. Andrews, B. S., Ext. Asst. Prof.

T. T. Brown, M. S., Assoc. Prof. Poultry Sci.

T. T. Brown, M. S., Assoc. Prof. Poultry Sci.

T. T. Brown, M. S., Assoc. Prof. Poultry

*T. T. Brown, M. S., Assoc. Prof. Poultry Sci.

*†F. W. Cook, M. S., Asst. Prof. Poultry Sci.

*†B. F. Cox. D. V. M., Res. Assoc. Prof. Poultry Sci.

*†F. R. Craig, B. S., Instr. Poultry Sci.

*†E. W. Glazener, Ph. D., Prof. Poultry Sci.

‡L. W. Herrick, M. S., Ext. Asst. Prof. Poultry Sci.

*†J. W. Kelly, Ph. D., Assoc. Prof. Poultry Sci.

Sci.

tC. J. Maupin, M. S., Ext. Asst. Prof. Poultry Sci. †T. B. Morris, M. S., Ext. Asst. Prof. Poultry

Sci., in charge Poultry Ext.

*N. W. Williams, M. S., Asst. Prof. Poultry
Sci., in charge Poultry Ext.

*N. W. Williams, M. S., Asst. Prof. Poultry

Sci.

Sociology (Rural):

*†C. H. Hamilton, Ph. D., Prof. and Head

*†C. H. Hamilton, Ph. D., Proj. and Medu of Dept. *†J. W. Green, M. S., Instr. Rural Sociol. *†S. C. Mayo, Ph. D., Assoc. Prof. Rural Sociol. *†E. A. Wilkening, Ph. D., Asst. Prof. Rural

Sociol.

Statistics (Expt.):

*†J. A. Rigney, M. S., Prof. and Head of Dept. *†Gertrude M. Cox, M. S., Prof. and Dir. Inst.

of Stat. *†R. L. Anderson, Ph. D., Prof. Expt. Stat.

(Econ. Stat.). *Mrs. Sarah P. Carroll, M. S., Instr. Expt.

*Mrs. Sarah F. Carlon, M. S., Freet. Sarat.

†R. E. Comstock, Ph. D., Prof. Expt. Stat.

†Garrett DeMots, B. S., Climat. (Coop. U. S.

Weather Bureau).

†A. L. Finkner, Ph. D., Assoc. Prof. Expt.

Stat. (Ooop. U. S. D. A.).

†H. L. Lucas, Jr., Ph. D., Prof. Expt. Stat.

Statistics (Expt.) - Continued

*†F. E. McVay, Ph. D., Asst. Prof. Expt. Stat.

*†R. J. Monroe, Ph. D., Res. Assoc. Prof. Expt. Stat.

*†H. F. Robinson, Ph. D., Assoc. Prof. Expt. Stat.

*†H. F. Smith, M. S. A., Prof. Expt. Stat.

†D. W. Swanson, M. S., Climat. (Coop. U. S. Weather Bureau).

Weather Bureau).

*†Dan Teichroew, M. A., Instr. Expt. Stat.

†F. J. Verlinden, M. S., Res. Asst. Prof. Expt.

Stat. †J. T. Wakeley, Ph. D., Res. Asst. Prof. Expt. Stat.

Miscellaneous:

*Mrs. Reba D. Clevenger, B. L. S., Reference Libr.

Branch Stations: 3

C. D. Thomas, Dir. Test Farm Div.
Border Belt Tobacco Res. Farm, P. 0.,
Whiteville—

Whiteville—
C. G. Smith, B. S., Supvr.
Central Sta. Farm, P. O., Raleigh—
L. Y. Parker, Supt.
Coastal Plain Branch Sta., P. O., Willard—
Charles Dearing, B. S., Asst. Dir.
Gordon Blake, B. S., Foreman.
C. O. Bollinger, Poultryman.
E. W. Faires, B. S., Dairy Herdsman
(Coop. U. S. D. A.).
Lower Coastal Plain Tobacco Res. Farm,
P. O., Greenville—
J. L. Apple, B. S., Supvr.
McCullers Expt. Sta., R. 1, Apex—
W. H. Bailey, B. S., Supt.
Mountain Branch Sta., P. O., Waynesville—

ville

Ray Whisenhunt, Asst. Dir.
E. C. Couch, Poultryman.
Luther Shaw, Ph. D., Agron. (Coop.
U. S. D. A.).
Mountain Fruit & Veg. Sta., P. O. Hender-

Mountain Fruit & Veg. Sta., P. O. Hendersonville—
C. E. Lewis, B. S., Supvr.
Peach Res. Lab., P. O., Eagle Springs—
Clarence Black, Supvr.
Piedmont Branch Sta., P. O. Statesville—
J. W. Hendricks, B. S., M. Agr., Asst.
Dir.
V. N. Baird, Foreman.
Tidewater Branch Sta., P. O., Plymouth—
J. L. Rea, Jr., B. S., Asst. Dir.
Herbert Allen, Foreman.
T. B. Harris, Herdsman.
Tobacco Branch Sta., P. O., Oxford—
J. M. Carr, B. S., Asst. Dir. (Coop. U. S.
D. A.).

D. A.).
C. M. Blackwell, Foreman.
Upper Coastal Plain Branch Sta., P. O.,

Rocky Mount—
R. E. Currin, Jr., Asst. Dir.
William Allsbrook, Asst. Supt.
Upper Mountain Branch Sta., P. O., Laurel

Springs—
J. A. Graham, Asst. Dir.
Gordon Sheets, Foreman.
Dan Taylor, Herdsman.

Upper Piedmont Tobacco Res. Farm, P. O.,

Upper Piedmont Tobacco Res. Farm, P. O.,
Rural Hall—
J. E. Sanderson, B. S., Supper.
Vegetable Res. Lab., P. O., Wilmington—
J. M. Jenkins, Jr., Ph. D., Res. Prof.
Hort. in charge.
F. A. Haasis, Ph. D., Res. Assoc. Prof.
Plant Path.
Vegetable Sta.—Duplin, Wayne, Sampson
Area; P. O., Faison—
A. A. Banadyga, M. S., Hort. in charge.

³ Under the State department of agriculture and the agricultural experiment station.

The Negro Agricultural and Technical College of North Carolina, Greensboro

*Agricultural faculty. ‡Extension staff.

*F. D. Bluford, D. Ped., President. W. E. Reed, Ph. D., Dean School of Agr., Prof. Agron.

*W. E. Alexander, M. S., Assoc. Prof. An. Husb.
*N. N. Banks, M. S., Asst. Prof. Home Econ. Ed.
*L. E. Barbee, M. S., Instr. Agron.
*T. Brewer, M. S., Asst. Prof. An. Husb.
*E. S. Carr, B. S., Instr. Agr. Engin.
†Mrs. R. C. Carraway, B. S., Dist. Home Dem. Agt.
‡W. C. Cooper, B. S., State 4-H Club Spec.
*Carolyn E. Crawford, M. S., Prof. Home Econ. Econ.

*C. E. Dean, M. S., Assoc. Prof. Agr. Ed. and Head of Dept. ‡W. J. Fisher, B. S., Asst. State Super. Voc.

‡W. J. Fisher, B. S., Asst. State Supvr. Voc. Agr.
*J. R. Grandy, B. S., Instr. Hort.
*A. P. Graves, Ph. D., Prof. Biol. and Head of Dept.
‡S. J. Hodges, Jr., B. S., Ext. Spec. Agron.
*M. J. Howell, M. S., Asst. Prof. Hort.
*J. W. Jefferies, B. S., Asst. State. Agt., Agr. and Home Econ. Ext.
‡Idell Jones, B. S., Asst. State 4-H Club Spec.

Spec. E. Jones, M. S., State Agt., Agr. and Home Econ. Ext.

*W. L. Kennedy, Ph. D., Prof. An. Indus. and Head of Dept.

‡G. M. Kyer, M. S., Ext. Spec. Home Mgt.

‡Wilhelmina R. Laws, B. S., Dist. Home Dem. Agt.

*A. B. Lewis, M. S., Assoc. Prof. Agr. Engin.

‡Mrs. Dazelle F. Lowe, B. S., Dist. Home Dem. Agt.

*E. R. McCarty, M. S., Asst. Prof. Cloth-ing and Textiles. *J. C. McLaughlin, M. S., Prof. Rural

Sociol.

*Sociol.

*Percy McWain, M. S., Asst. Prof. Chem.

*I. H. Miller, Jr., Ph. D., Assoc. Prof. Chem.

*Alma I. Morrow, B. S. L. S., Libr.

*J. B. Murphy, M. S., Assoc. Prof. Agr.

*James Pendergrast, M. S., Asst. Prof.

Chem.

*Katrina M. Porcher, M. A., Asst. Prof. Home Econ. !Mrs. B. B. Ramseur, M. S., Ext. Spec. Foods and Nutr. *G. F. Rankin, M. S., Asst. Prof. Agr. Ed.

*G. And Nutr.

*G. F. Rankin, M. S., Asst. Prof. Agr. Ed.

*Mrs. Clara V. Reid, M. S., Prof. Home

Ecom. and Head of Dept.

*W. T. Richie, M. S., Asst. Prof. Poultry

Husb. and Mktg.

\$\$\frac{1}{2}\$S. B. Simmons, B. S., State Supvr. Voc.

Agr. Ed.

*B. T. Simpson, M. S., Asst. Prof. Chem.

*F. D. Smith, D. V. M., Prof. An. Indus.

\$\$\frac{1}{2}\$J. A. Spaulding, B. S., Dist. Farm Agt.

*William Spigener, M. S., Asst. Prof. Bot.

*A. S. Totten, M. S., Assc. Prof. Poultry

Husb.

*A. S. Totten, M. S., Husb.

‡J. W. Warren, B. S., Asst. State Super. Voc.

*B. T. White, Ph. D., Prof. Chem. and Head of Dept.

*F. A. Williams, Ph. D., Prof. Agr. Econ. and Head of Dept.

*H. C. Williams, M. S., Asst. Prof. Agr.

*H. C.

‡R. L. Wynn, M. S., Ext. Spec. Dairy.

NORTH DAKOTA

North Dakota Agricultural College and the Agricultural Experiment Station, State College Station, Fargo (freight and express address, Fargo)

> *College faculty. †Station \$Leave of absence. †Station staff. ‡Extensi absence. ||Military leave. ‡Extension staff.

*F. S. Hultz, Ph. D., President.

*†H. L. Walster, Ph. D., Dean School of Agr., Dir. of Sta.

*†G. S. Smith, Ph. D., Assoc. Dean School of Agr., Assoc. Dir. of Sta.

*†P. A. Nystuen, B. S., Asst. to Dean and Dir.

‡E. J. Haslerud, B. S., Dir. of Agr. Ext.

*F. F. Skinner, Business Mgr.

Animal Industry:

*†M. L. Buchanan, M. S., Chief of Div.

ANIMAL HUSBANDRY:

*†M. L. Buchanan, M. S., Prof. and Chair. of

*TM. L. Buchanan, R. S., 1979.

Dept.

†D. W. Bolin, M. S., Assoc. Nutr.

*W. E. Dinusson, Ph. D., Assoc. Prof. and Assoc. An. Husb.

†Florence Goedert, B. S., Asst. in An. Nutr.

*†E. W. Klosterman, Ph. D., Assoc. Prof. and

*† §E. L. Lasley, M. S., Asst. Prof. and Asst.

An. Husb. ‡M. H. McDonald, B. S., Ext. An. Husb.

DAIRY HUSBANDRY:

*†Chris Jensen, Ph. D., Prof. Dairy Technol.;
Dairy Technol. and Chair. of Dept.
†L. D. Beck, B. S., Asst. Dairy Technol.
*†T. L. Forster, Ph. D., Asst. Prof. and Asst.
Dairy Technol.
†R. F. Gaalaas, Supt. Mandan Dairy Sta.
(Cop. U. S. D. A.)
‡C. C. Olson, B. S., Ext. Dairyman.
†Emily Plath, M. S., Tech.

Animal Industry—Continued

DAIRY HUSBANDRY-Continued

*†E. J. Stone, M. S., Asst. Prof. and Asst. Dairy Husb.

*†J. B. Williams, Ph. D., Asst. Prof. and Asst.

Dairy Husb.

POULTRY HUSBANDRY:

*†R. L. Bryant, Ph. D., Prof. and Chair. of Dept.

*O. A. Barton, B. S., Prof. Poultry Husb. *†R. E. Moreng, Ph. D., Asst. Prof. and Asst.

*†||K. F. Schlamb, M. S., Asst. Prof. and Asst. Poultry Husb.

VETERINARY SCIENCE:

*†D. F. Eveleth, Ph. D., D. V. M., Prof. and Chair. of Dept.

*†F. M. Bolin, D. V. M., Assoc. Prof. and Assoc. Vet.

†Alice I. Goldsby, B. A., Tech. and Asst. in Vet. Soci

Vet. Sci.

*†G. C. Holm, M. S., D. V. M., Prof. Bact. and Vet. Sci.; Vet. †Jennie Turn, B. S., Tech. Asst.

Bacteriology:

*†C. I. Nelson, Ph. D., Prof. and Chair. of Dept.

*J. A. Doubly, M. S., Asst. Prof. Bact. *†R. C. Malzahn, Ph. D., Asst. Prof. and Asst. Bact. *†J. L. Parsons, M. S., Instr., and Asst. Bact.

Chemistry (Agr.):

†C. O. Clagett, Ph. D., Actg. Chair. of Dept. †Kenneth Anderson, B. S., Res. Asst. in Agr. Chem.

†Ronald Frederickson, B. S., Res. Asst. in Agr. Chem. †A. F. Kingsley, Ph. D., Assoc. Agr. Chem. †H. J. Klosterman, B. S., Asst. Agr. Chem.

Economics (Agr.):

*†R. W. Schickele, Ph. D., Prof. and Chair. of Dept., Prin. Agr. Econ.

‡H. G. Anderson, M. S., Ext. Econ.

*†L. A. Fourt, A. B., Asst. Prof. and Asst. Agr. Econ.

†R. J. Gilcreast, M. S., Agr. Econ. (Coop. U. S. D. A.).

*†C. B. Haver, M. S., Asst. Prof. and Asst. Agr. Econ.

*†P. V. Hemphill, M. S., Assoc. Prof. and Assoc. Agr. Econ.

*†P. V. Hemphill, M. S., Assoc. Prof. and Assoc. Agr. Econ.

*†H. W. Herbison, M. S., Ext. Econ.

*†B. H. Kristjanson, Ph. D., Assoc. Prof. and

*Asst. Agr. Econ.

*C. E. Miller, M. S., Prof. Agr. Econ.

†J. C. Podany, M. S., Asst. Agr. Econ.

†L. W. Schaffner, M. S., Asst. Agr. Econ.

†P. J. Thair, M. S., Agr. Econ. (Coop. U. S.

D. A.).
 †Stanley Voelker, M. S., Agr. Econ. (Coop. U. S. D. A.).

Education (Agr.):

*E. L. De Alton, M. S., Prof. and Chair. of Dept., State Supvr. Voc. Agr. Ed.

*W. H. Dolve, B. S., Instr. and Asst. State Supvr. Voc. Agr. Ed.

*W. K. Gamble, M. S., Asst. Supvr. Voc. Agr. Ed.

*S. D. Owen, M. S., Assoc. Prof. and Asst. State Supvr. Agr. Ed.

*T. W. Thordarson, M. S., Dir. Corresp. and Coll. Est. Courses.

*Everett Toole, B. S., Asst. Supvr. Voc. Agr. Ed.

Engineering (Agr.):

*†W. J. Promersberger, M. S., Prof. and Chair.
of Dept.
*†N. A. Evans, M. S., Asst. Prof. and Asst.
Agr. Engin.
‡A. H. Schulz, B. S., Ext. Agr. Engin.
*†R. L. Witz, M. S., Assoc. Prof. and Assoc.
Agr. Engin.

Entomology (Agr.):

*†J. A. Munro, Ph. D., Prof. and Chair. of Dept. (State Ent.).

‡W. J. Colberg, M. S., Ext. Ent.

*†R. L. Post, Ph. D., Assoc. Prof. and Assoc. Agr. Ent.

Extension Administration:

tension Administration:

‡E. J. Haslerud, B. S., Dir.

‡Grace E. DeLong, B. A., State Home Dem. Leader.

‡M. Emily Freeman, B. S., Asst. State Home Dem. Leader.

†N. D. Gorman, B. S., County Agt. Leader.

‡O. J. Nesset, Admin. Asst. to Dir.

‡Pauline M. Reynolds, B. A., Ext. Agt. for Rural Youth.

‡H. E. Rilling, M. S., State 4-H Club Leader.

‡Ruth L. Shepard, B. S., Assoc. 4-H Club Leader. Leader.

‡B. J. Berntson, B. S., Dist. Supvr.

‡H. J. Brush, B. S., Dist. Supvr.

Extension Administration—Continued

‡A. M. Challey, B. S., Dist. Supvr. ‡P. R. Kasson, B. S., Dist. Supvr.

Home Economics:

*Leita Davy, Ph. D., Dean of School.

*Minnie A. Anderson, M. A., Prof. Home
Econ. and Chair. Dept. of Clothing and Textiles.

‡Julia E. Brekke, M. A., Ext. Agt. in Cloth-

*Ada M. Campbell, M. A., Asst. Prof. Foods and Nutr. ‡Ruth M. Dawson, M. A., Ext. Nutr. ‡Mrs. Florence P. Day, M. S., Ext. Agt. in

Home Mgt. ‡Mrs. Astrid C. Erickson, B. S., Ext. Agt. in

*Christine Finlayson, A. M., Assoc. Prof. Home Econ. and State Supvr. Home

Home Econ. and State Super. Homemaking Ed.
*Mildred E. Hawkins, M. S., Asst. Prof. Clothing and Textiles.
*Lucille M. Horton, M. S., Prof. and Chair. Dept. of Home Econ. Ed.
*Frances K. Kapuscinski, M. A., Prof. and Chair. Dept. of Art.
*Constance Leeby, M. A., Assoc. Prof. Home Econ. (Foods).

Econ. (Foods).
*Majore Lovering, Asst. State Supvr. Home

Econ. *Evadine Parker, M. S., Asst. Prof. Home

*Evadine Parker, M. S., Asst. Prof. Home Econ. Ed.

‡Mrs. Ethel J. Peet, B. S., Asst. Ext. Agt. in Clothing.

*Emily P. Reynolds, B. S., Instr. Clothing.

*Mildred E. Schmidt, M. S., Instr. Foods.

*Elvira T. Smith, M. A., Prof. and Chair. Dept. of Foods and Nutr.

*Eleanor A. Vergin, B. S., Home Mgt. House Suppr., Instr. Home Mgt.

*Carolyn Vosburg, B. S., Instr. Related Art.

‡Ramona C. Voss, B. S., Asst. Ext. Nutr.

Human Nutrition:

†Eunice E. Kelly, M. S., Human Nutr.

Plant Industry: *†G. S. Smith, Ph. D., Chief of Div.

AGRONOMY:

†T. E. Stoa, M. S., Chair. of Dept. †Leland Briggle, B. S., Asst. Agron. *†J. F. Carter, Ph. D., Assoc. Prof. and Assoc. Agron.

*O. O. Churchill, Ph. D., Prof. Agron. (Farm Crops), ‡I. T. Dietrich, B. S., Ext. Soil Conserv. (Coop. U. S. D. A.). *†H. J. Gorz, Ph. D., Asst. Prof. and Asst.

†H. J. GOTZ, Ph. D., Asst. Proj. and Asst. Agron.
†R. M. Heermann, M. S., Asst. Agron. (Coop. U. S. D. A.).
*G. A. Johnsgard, Ph. D., Prof. Soils.
†M. G. Klages, M. S., Asst. in Soils.
†B. L. Matzek, B. S., Soil Sci. (Coop. U. S.

†B. L. Matcer, B. S., Sow Sci.

D. A.).

†Paul Nickel, B. S., Asst. in Soils.

†E. B. Norum, Ph. D., Prof. Soils; Soil Sci.

†Lloyd Shoesmith, B. S., Soil Sci. (Coop.

U. S. D. A.).

†W. W. Sisler, M. S., Asst. Prof. and Asst.

*†W. W. Sisler, M. S., Asst. Agron.
Agron.
†C. M. Swallers, B. S., Asst. Agron.
†L. R. Waldron, Ph. D., Agron. (Plant Brdg.).
†R. B. Widdifield, B. S., Ext. Agron.
†William Wiidakas, M. S., Asst. Agron.
(Plant Brdg.).
*†\$R. A. Young, M. S., Asst. Prof. and Asst.
Soil Sci.
*†J. C. Zubriski, Ph. D., Actg. Asst. Prof. and Actg. Asst. Soil Sci.

*†E. A. Helgeson, Ph. D., Prof. and Chair. of Dept.

Plant Industry-Continued

BOTANY-Continued

*†O. A. Stevens, M. S., D. Sc., Prof. Bot.; Bot. *†W. C. Whitman, Ph. D., Assoc. Bot. and Agrostologist.

CEREAL TECHNOLOGY:

†R. H. Harris, Ph. D., Chair. of Dept. †O. J. Banasik, M. S., Asst. Cereal Technol. †L. D. Sibbitt, Asst. Cereal Technol.

HORTICULTURE AND FORESTRY:

*†J. H. Schultz, Ph. D., Prof. and Chair. of Dept.

†Harold Mattson, B. S., Hort. ‡H. A. Graves, B. S., Ext. Hort. ‡J. J. Zaylskie, B. S., Ext. For.

PLANT PATHOLOGY:

†W. E. Brentzel, M. A., Chair. of Dept. †H. H. Flor, Ph. D., Plant Path. (Coop. U. S. D. A.).

†W. G. Hoyman, Ph. D., Assoc. Plant Path. †G. C. Mayoue, M. S., Plant Path. (Coop. U. S. D. A.).

Sociology (Rural):

*‡A. G. Arvold, B. A., Ext. Leader in Neighborhood Activities, Chair. Dept. of Speech.

Miscellaneous:

*H. D. Stallings, M. A., Libr. †Mrs. Edna Wentz, Libr. †J. J. Burnham, A. B., Editor. ‡T. W. Gildersleeve, Ext. Editor.

Substations:

Dickinson

Leroy Moomaw, B. S., Supt. (Coop. U. S.

D. A.).
T. J. Conlon, B. S., Asst. Agron.
Larkin Langford, M. S., Asst. An. Husb.

Edgeley-J. P. Tiernan, Supt. Hettinger-

Robert Woods, B. S., Farm Mgr.

Engin.

Langdon—
Victor Sturlaugson, Supt.
Minot (No. Central)—
G. N. Geiszler, M. S., Supt.
Williston—
Williston—
M. S. Supt. A. G. Hazen, M. S., Supt. and Assoc. Agr.

оню

The Colleges of Agriculture and Veterinary Medicine of Ohio State University, Columbus 10

*College faculty. ‡Extension staff. \$Leave of absence.

*H. L. Bevis, A. B., LL. B., S. J. D., President of University.
*L. L. Rummell, M. S., Dean Coll. of Agr.
‡C. M. Ferguson, B. S., Dir. of Agr. Ext.
*W. R. Krill, B. S., D. V. M., Dean Coll. of Vet. Med.
*T. S. Sutton, Ph. D., Asst. Dean Coll. of Agr.
*C. S. Hutchison, M. A., Asst. Dean Coll. of Agr.
*W. B. Wood, M. S., Junior Dean and Secy. Coll. of Agr.
*J. D. Bragg, B. S., Admin. Secy.

Agronomy:

ronomy:

G. W. Volk, Ph. D., Chair. of Dept.

†D. R. Dodd, Ph. D., Ext. Agron.

*Nicholas Holowaychuk, M. S., Inst
Agron.*

†Earl Jones, M. S., Ext. Agron.

*R. L. Jeffers, Ph. D., Asst. Prof. Agron.

C. A. Lamb, Ph. D., Prof. Agron.

W. P. Martin, Ph. D., Prof. Agron.

†E. P. Reed, M. S., Ext. Agron.

‡J. A. Salter, Ph. D., Assoc. Prof. Agron.

†J. A. Slipher, B. S., Soil Conserv.

C. J. Willard, Ph. D., Prof. Agron. Instr.

Animal Husbandry:

imal Husbandry:

*D. J. Kays, B. S., Chair. of Dept.

†H. M. Barnes, B. S., Instr. An. Husb.

*Vern Cahill, M. S., Instr. An. Husb.

*J. S. Coffey, B. S., Prof. An. Husb.

*J. C. Cretcher, B. S., Instr. An. Husb.

*R. J. Deans, B. S., Instr. An. Husb.

*R. J. Deans, B. S., Instr. An. Husb.

*L. A. Kaufman, M. S., Prof. An. Husb.

*L. E. Kunkle, M. S., Assoc. Prof. An. Husb.

*H. R. Pifer, M. S., Prof. An. Husb.

*H. R. Purdy, B. S., Instr. An. Husb.

†J. H. Warner, B. S., An. Husb. Spec.

Bio-Chemistry (Agr.):

*T. S. Sutton, Ph. D., Chair. of Dept.4

*J. F. Lyman, Ph. D., Prof. Agr. Bio-Chem.

*E. F. Almy, Ph. D., Prof. Agr. Bio-Chem.

*R. C. Burrell, Ph. D., Prof. Agr. Bio-Chem.

*F. E. Deatherage, Ph. D., Asst. Prof. Bio-Chem.

Botany:

*B. S. Meyer, Ph. D., Chair. of Dept.⁴
*L. J. Alexander, Ph. D., Assoc. Prof. Bot.⁴
*C. C. Allison, Ph. D., Prof. Bot.

Botany---Continued

otany—Continued

*G. W. Blaydes, Ph. D., Prof. Bot.

*R. H. Bohning, M. S., Asst. Prof. Bot.

*R. S. Davidson, Ph. D., Asst. Prof. Bot.

*C. W. Ellett, M. S., Instr. Bot.

*W. D. Gray, Ph. D., Assoc. Prof. Bot.

*S. S. Humphrey, M. S., Instr. Bot.

†Blair Janson, Ph. D., Ext. Plant Path.

*C. H. Jones, M. S., Asst. Prof. Bot. and

Curator of Herbarium.

*Lois Lampe, Ph. D., Asst. Prof. Bot.

*E. F. Paddock, Ph. D., Asst. Prof. Bot.

*E. F. Paddock, Ph. D., Asst. Prof. Bot.

*E. F. Paddock, Ph. D., Prof. Bot.

*C. Sampson, Ph. D., Prof. Bot.

*W. G. Stover, Ph. D., Prof. Bot.

*C. A. Swanson, Ph. D., Prof. Bot.

*C. A. Swanson, Ph. D., Assoc. Prof. Bot.

*C. E. Taft. Ph. D., Assoc. Prof. Bot.

*A. E. Waller, Ph. D., Assoc. Prof. Bot.,

Curator Bot. Garden

*Clara Weishaupt, Ph. D., Instr. Bot.

*J. D. Wilson, Ph. D., Assoc. Prof. Bot.

*J. D. Wilson, Ph. D., Assoc. Prof. Bot.

*H. C. Young, Ph. D., Assoc. Prof. Bot.

Dairy Husbandry:

*Fordyce Ely, Ph. D., Chair. of Dept. \$
\pmod \tau \text{L. L. Blackman, M. S., Dairy Husb. Spec.} \$
\pmod \text{W. J. Brakel, M. S., Asst. Prof. Dairy Husb.} \$
\pmod \text{L. O. Gilmore, Ph. D., Assoc. Prof. Dairy Husb.} \$
\pmod \text{H. E. Kaeser, B. S., Instr. Dairy Husb.} \$
\pmod \text{E. J. Lazear, M. S., Instr.} \$
\pmod \text{T. M. Ludwick, Ph. D., Assoc. Prof. Dairy Husb.} \$
\pmod \text{H. E. Kaeser, B. S., Instr.} \$
\pmod \text{T. M. Ludwick, Ph. D., Assoc. Prof. Dairy Husb.} \$
\pmod \text{H. E. Kaeser, B. S., Instr.} \$
\pmod \text{T. M. Ludwick, Ph. D., Assoc. Prof. Dairy Husb.} \$
\pmod \text{T. M. Ludwick, Ph. D., Assoc. Prof. Dairy Husb.} \$
\pmod \text{T. M. Ludwick, Ph. D., Assoc. Prof. Dairy Husb.} \$
\end{array}

Husb.4 ‡C. D. McGrew, B. S., Assoc. Prof. Dairy Husb.

*S. M. Salisbury, B. S., Prof. Dairy Husb. ‡R. R. Starbuck, M. S., Dairy Husb. Spec.

‡E. H. Voeller, B. S., Dairy Husb. Spec.

⁴ See also experiment station staff.

Dairy Technology:

- *I. A. Gould, Ph. D., Prof. and Chair. of
- *tT. V. Armstrong, B. S., Instr. Dairy Technol.
- *L. H. Burgwald, M. S., Prof. Dairy Technoi.4
- tP. R. Ellsworth, B. S., Asst. Prof. Dairy Technol. *T. D. Harmon, Ph. D., Instr. Dairy Tech-
- *W. J. Harper, Ph. D., Asst. Prof. Dairy
 Technol.

 M S. Asst. Prof. Dairy *H. L. Mitten, M. S., Asst. Prof. Dairy Technol.
- *J. A. Paxton, B. S., Instr. Dairy Technol. *W. L. Slatter, Ph. D., Assoc. Prof. Dairy Technol.*
- ‡J. T. Smith, B. S., Asst. Prof. Dairy Tech-

Economics and Sociology (Rural):

- *J. I. Falconer, Ph. D., Chair. of Dept.4

 *J. I. Falconer, Ph. D., Chair. of Dept.4

 *R. H. Baker, Ph. D., Instr. Rural Econ.4

 ‡L. H. Barnes, B. S., Farm Mgt. Spec.

 ‡W. H. Bruner, B. S., Mktg. Spec.

 ‡C. F. Christian, B. S., Datry Mktg. Spec.

 ‡F. S. DeLashmutt, B. S., Farm Mgt. Spec.

 ‡C. W. Hammans, M. S., Mktg. Spec.

 *G. F. Henning, Ph. D., Prof. Rural Econ.4

 *A. R. Mangus, Ph. D., Prof. Rural Econ.4

 *A. R. Mangus, Ph. D., Prof. Rural Econ.4

 *Aurgaret McDonald, M. S., Asst. Prof.

 Rural Econ.

 ‡G. W. Miller, M. S., Farm Mgt. Spec.

 ‡S. O. Millikin, B. S., Asst. Prof. Rural

 Econ.

- Econ.
 *H. R. Moore, M. S., Assoc. Prof. Rural
 Econ.

 Econ.

 Econ.

 Econ.

 Econ.
- †K. D. Peterson, B. S., Grain Mktg. Spec. *R. C. Scott, Ph. D., Asst. Prof. Mktg. *R. W. Sherman, Ph. D., Asst. Prof. Rural
- Econ.4
- *J. H. Sitterley, Ph. D., Prof. Rural Econ. ‡M. G. Smith, Ph. D., Farm Mgt. Spec. ‡R. B. Tom, Spec. in Rural Sociol. *W. A. Wayt, M. S., Instr. Rural Econ. *V. R. Wertz, Ph. D., Prof. Rural Econ.

Editorial-See Journalism.

Education (Agr.):

- *R. E. Bender, Ph. D., Chair. of Dept.
 *E. O. Bolender, M. S., Assoc. Prof. Agr. Ed.
 *L. W. Boucher, B. S., Instr. Agr. Ed.
 *R. C. Deacon, B. S., Instr. Agr. Ed. (P. O., West Jefferson).
- *L. B. Fidler, M. A., Asst. Prof. Agr. Ed. *G. S. Guiler, B. S., Instr. Agr. Ed. *H. G. Kenestrick, Ph. D., Assoc. Prof. Agr.

- Ed.
 *D. R. Purkey, B. S., Asst. Prof. Agr. Ed.
 *A. E. Ritchie, M. S., Instr. Agr. Ed.
 *F. J. Ruble, M. S., Asst. Prof. Agr. Ed.
 *W. F. Stewart, Ph. D., Prof. Agr. Ed.
 *W. H. Wolf, M. S., Instr. Agr. Ed. (P. O.,
 Westerville).
 *R. J. Woodin, B. S., Instr. Agr. Ed.

Engineering (Agr.):

- *G. W. McCuen, B. S., Chair. of Dept.*

 *G. W. McCuen, B. S., Agr. Engin. Spec.

 ‡R. D. Barden, M. S., Agr. Engin. Spec.

 ‡K. V. Battles, B. S., Agr. Engin. Spec.

 ‡I. P. Blauser, B. S., Agr. Engin. Spec.

 ‡J. D. Blickle, M. S., Agr. Engin. Spec.

 *D. M. Byg, B. S., Instr. Agr. Engin.

 *C. A. High, Instr. Rural Electric Line Construction and Maintenance.

 ‡S. G. Huber, B. S., Agr. Engin. Spec.

 *A. C. Kennedy, M. S., Prof. Agr. Engin.

 *B. J. Lamp, B. S., Instr. Agr. Engin.

 *R. C. Miller, B. S., Prof. Agr. Engin.

 *V. L. Overholt, B. S., Prof. and Agr. Engin.

 Spec.

- Spec. ‡W. E. Stuckey, M. A., Instr. Farm Safety. *D. F. Warner, B. A. E., Instr. Agr. Engin.

Entomology-See Zoology.

Extension Administration:

- tC. M. Ferguson, B. S., Dir. tG. B. Crane, M. S., Asst. Dir. and Secy. tO. C. Croy, M. S., Asst. Dir. in charge
- Programs. Minnie Price, A. M., State Home Dem.
- Leader.
- tW. H. Palmer, M. S., State Club Leader. tJ. P. Schmidt, B. S., Supvr. of Insts. tBetty Brooks, B. S., Asst. State Club
- Leader
- th. W. Harshfield, M. A., Asst. State Club Leader. tAlice M. King, M. A., Asst. State Home Dem. Leader. tEva M. Kinsey, B. S., Asst. State Club
- Leader. ‡Eunice T. Kochheiser, B. S., Asst. State
- #Eunice T. Kochneiser, B. S., Asst. State
 Home Dem. Leader.

 †C. C. Lang, B. S., Asst. State Club Leader.
 †J. T. Mount, B. S., Asst. State Club Leader.
 †D. B. Robinson, M. S., Asst. Super. Projects and Programs.

 †Fanchon Warfield, B. S., Asst. State Home
 Dem. Leader.
 †Nellie Watts, M. A., Asst. State Home Dem.
 Leader.
- Leader.
- †J. L. Amsbaugh, B. S., Asst. Secy. †W. W. Brownfield, B. S., Dist. Supvr. †Guy Dowdy, M. S., Asst. Supvr. Projects and Programs. †G. R. Eastwood, M. S., Dist. Supvr. †C. A. Haas, B. S., Dist. Supvr.

Home Economics:

- *Gladys A. Branegan, Ph. D., Dir. of School.4
 *Lucile Alexander, M. S., Instr. Home Econ.
 *Clara M. Bancroft, M. S., Assoc. Prof.
 Home Econ.
- *Elizabeth Bastian, M. A., Asst. Prof. Home
- Econ. †Thelma Beall, B. S., Home Mgt. Spec. *Ruth M. Beard, M. S., Asst. Prof. Home Econ
- Econ.

 Edith Berry, B. A., Clothing Spec.

 Anne P. Biebricher, B. S., Home Mgt. Spec.

 Edna M. Callahan, M. A., Clothing Spec.

 Catherine A. Cochran, M. A., Instr. Home
- Econ*Daisy Davis, M. A., Assoc. Prof. Home
- Econ *Mary E. Fuqua, M. S., Instr. Home Econ. ‡Alma L. Garvin, M. A., Nutr. Spec. *Lois E. Gilmore, Ph. D., Assoc. Prof. Home
- Econ.
- *Mrs. Faith L. Gorrell, M. A., Prof. Home Econ.
- *Martha E. Graham, M. S., Instr. Home Econ
- *Mary E. Green, Ph. D., Asst. Prof. Home Econ.
- *Virginia F. Harger, M. S., Asst. Prof. Home Econ.
- *Helene Heye, Ph. D., Prof. Home Econ.⁴
 *Ruth Hoeflin, A. M., Instr. Home Econ.⁴
 *Elizabeth Irvine, M. A., Asst. Prof. Home
- *Norejane Johnston, M. S., Instr. Home Econ.
- *Mrs. June F. Kennedy, M. A., Asst. Prof. Home Econ. *Mary E. Kohler, M. A., Instr. Home Econ. (P. O., Hilliards). *Mildred C. Kyle, M. A., Asst. Prof. Home

- Econ. uth T. Lehman, Ph. D., Prof. Home *Ruth Econ. *Martha N. Lewis, M. S., Asst. Prof. Home

- Econ.
 *Reva Lincoln, M. S., Instr.
 *Florence Lloyd, M. S., Asst. Prof. Home Econ.
- Josephine Looney, M. S., Asst. Prof. Home Econ.

⁴ See also experiment station staff.

Home Economics-Continued

- *Mrs. Lois R. MacDonald, M. S., Instr. Home Econ.
- *Elizabeth M. Moore, M. S., Asst. Prof.
- *Madge L. Myers, M. S., Instr. Home Econ.
 *Christine Newark, Ph. D., Assoc. Prof. *Christine Newark, Ph. D., Assoc. Proj. Home Econ.*

 *Jessie C. Obert, M. S., Instr. Home Econ.

 *Mrs. Virginia R. Palcich, B. S., Instr. Home Econ.

 Mrs. Mary B. Patton, Ph. D., Assoc. Prof. Home Econ.

 ‡Lucile Pepoon, M. S., Child Development and Family Life Spec.

 *Mrs. Alice D. Pressey, A. M., Assoc. Prof. Home Econ.

- Home Econ.
 *Mrs. Hazel H. Price, Ph. D., Assoc. Prof.
- Home Econ. *Mrs. Inez Prudent, Ph. D., Assoc. Prof.
- Home Econ.

 *Eunice Ryan, M. A., Asst. Prof. Home Econ.

 ‡D. J. Schoppe, M. S., Home Furnishing

 Spec.
- *Dorothy Schultz, B. S., Instr. Home Econ. (P. O., Plain City). *Dorothy D. Scott, M. A., Ed. D., Prof. Home Econ.
- *Mrs. Agnes S. Smith, M. S., Asst. Prof.
- *Frances Stir, B. S., Instr. (P. O., Canal Winchester). Instr. Home Econ.
- (P. O., Canal Winchester).
 *Alma F. Tapscott, M. A., Asst. Prof. Home
- Econ
- *Claribel M. Taylor, M. A., Instr. Home Econ. *Eve E. Turnbull, M. A., Asst. Prof. Home
- *Byce B. Turnoui, M. A., Asst. Froj. Home Econ. ‡Marie Walters, M. A., Home Mgt. Spec. *Mrs. Elaine K. Weaver, Ph. D., Assoc. Prof. Home Econ.

 *Eunice Wertenberger, M. S., Instr. Home
- Econ. *Marion A. Wharton, Ph. D., Asst. Prof. Home Econ.4 *LeVelle Wood, M. S., Assoc. Prof. Home
- Econ.

Horticulture and Forestry:

- *F. S. Howlett, Ph. D., Chair. of Dept.⁴
 *E. K. Alban, Ph. D., Assoc. Prof. Hort.⁴
 *H. D. Brown, Ph. D., Prof. Food Processing.⁴
 *L. C. Chadwick, Ph. D., Prof. and Spec. in
- Flor 4
- *Flor.*
 *Donald Comin, M. S., Asst. Prof. Hort.
 *E. A. Conway, Instr. For.
 *Dorothy M. Culler, M. S., Instr. Hort.

 ‡F. W. Dean, B. S., For. Spec. (P. O.,
 *Wooster).

 **Dorothy D. Asst. Prof. For.
 **O D. Dillon D. Asst. Prof. For.
- *O. D. Diller, Ph. D., Asst. Prof. For.4

 *W. A. Gould, Ph. D., Instr. Food Processing.4
- *ing.*

 F. O. Hartman, M. S., Instr. Hort.

 R. G. Hill, Jr., Ph. D., Asst. Prof. Hort.

 F. E. Johnstone, Jr., Ph. D., Prof. Hort.

 *Victor Keirns, M. S., Veg. Gard. Spec.

 *tD. C. Kiplinger, M. S., Asst. Prof. and Spec.

 in Flor.*

 Alax Janua M. A. Prof. Flor.

- *M. Fior.*

 Alex Laurie, M. A., Prof. Flor.

 *K. S. Nelson, M. S., Instr. Hort.

 ‡J. V. Patterson, B. S., Pomol. Spec.

 ‡V. H. Ries, M. S., Flor. Spec.

 ‡B. C. Smith, M. S., Instr. Hort.

 ‡Eugene Wittmeyer, B. S., Veg. Gard. Spec.

Journalism (Agr.):

- ‡F. C. Byrnes, B. S., Editor.4 *H. R. O'Brien, M. A., Lect. in Agr. Journalism.
- *Jack Strader, B. S., Instr. ‡Maurice White, M. S., Asst. Editor (Radio). ‡C. E. Wilson, A. B., Asst. Editor (Visual Instr.).

Journalism (Agr.)-Continued

Miriam F. Yantis, B. S., Asst. Editor (Radio).

Poultry Husbandry:

- *E. L. Dakan, B. S., Chair. of Dept.⁴
 *R. E. Cray, M. S., Prof. Poultry Husb.⁴
 *R. G. Jaap, Ph. D., Prof. Poultry Husb.⁴
 †Emil Malinosky, M. S., Poultry Spec.
 †D. D. Moyer, B. S., Poultry Spec.
 †M. C. Sweet, M. S., Poultry Spec.
 *A. R. Winter, Ph. D., Prof. Poultry Husb.⁴

Veterinary Medicine:

- *W. R. Krill, B. S., D. V. M., Dean of Coll.4
 *H. E. Amstutz, D. V. M., Instr. Vet. Med.
 *E. H. Bohl, D. V. M., M. S., Instr. Bact.
 *E. W. Burroughs, Ph. D., Assoc. Prof. Vet.
- Res.

- Res.⁴
 *E. J. Catcott, D. V. M., M. S., Instr. Vet.
 Med.
 *Deane Chamberlain, B. S., D. V. M., Instr.
 Vet. Path.
 *C. H. Clark, B. S., D. V. M., Instr. Vet.
 Physiol.
 *C. R. Cole, D. V. M., Ph. D., Assoc. Prof.
 Vet. Path.
 *Robert Cross. D. V. M. Instr. Vet. Path.
- *Robert Cross, D. V. M., Instr. Vet. Path.

 *C. D. Diesem, D. V. M., Instr. Vet. Anat.

 *B. H. Edgington, M. D. C., D. V. M., Prof.

 Vet. Med. (P. O., Reynoldsburg).

 *L. C. Ferguson, D. V. M., Ph. D., Asst. Prof.

 Bact. (C. R.)

- *J. D. Grossman, G. Ph., D. V. M., Prof. Vet. Anat.

 *W. F. Guard, D. V. M., Prof. Vet. Res.

 *J. H. Helwig, D. V. M., M. S., Assoc. Prof. and Head Dept. of Vet. Preventive Med.

 *W. L. Ingalls, D. V. M., M. S., Asst. Vet. *W. L.
- *L. E. Johnson, D. V. M., M. S., Asst. Prof. Vet. Surg. *D. O. Jones, D. V. M., Instr Vet. Preventive
- Med.
- Med.

 *N. B. King, D. V. M., M. S., Instr. Vet. Res.

 *F. J. Kingma, D. V. M., M. S., Assoc. Prof.

 Vet. Physiol. and Pharmacol.

 *F. R. Koutz, D. V. M., M. S., Asst. Prof.

 Vet. Parasit.

 *H. M. Mauger, Jr., D. V. M., M. S., Asst.

 Prof. Vet. Anat.

 *John Ramge, D. V. M., M. S., Instr. Vet.

 Med.

- *R. E. Rebrassier, D. V. M., M. S., Instr. vet. Med.

 *R. E. Rebrassier, D. V. M., M. S., Prof. Vet. Parasit.

 *C. E. Robinson, D. V. M., Instr. Military and Air Sci.,

- and Air Sci.

 *R. L. Rudy, D. V. M., Asst. Vet. Surg.

 *C. R. Smith, D. V. M., M. S., Instr. Vet. Physiol. and Pharmacol.

 *V. L. Tharp, D. V. M., Asst. Prof. Vet. Med. and Dir. of Clinics.

 *W. G. Venzke, D. V. M., Ph. D., Asst. Prof. Vet. Med.

Zoology and Entomology:

- *D. F. Miller, Ph. D., Chair. of Dept.4

 *D. J. Borror, Ph. D., Assoc. Prof. Zool.

 *C. R. Cutright, Ph. D., Assoc. Prof. Ent.4

 *S. A. Dambach, Ph. D., Assoc. Prof. Ent.4

 *R. H. Davidson, Ph. D., Assoc. Prof. Ent.4

 *D. M. DeLong, Ph. D., D. Sc., Prof. Ent.4

 *W. E. Dunham, Ph. D., Assoc. Prof. Ent.4

 *E. H. Dustman, Ph. D., Assoc. Prof. Ent.4

 *E. H. Dustman, Ph. D., Asst. Prof. and Dir. Coop. Wildlife Res. Sta.

 *A. S. Fox, Ph. D., Asst. Prof. Zool. and Ent.4

 *F. W. Fisk, Ph. D., Asst. Prof. Zool. and Ent.4

 *Maurice Giltz. M. S.. Instr. Zool. and Ent.4
- *Maurice Giltz, M. S., Instr. Zool. and Ent.
 *E. E. Good, M. S., Instr. Zool.
 *E. L. Green, Ph. D., Assoc. Prof. Zool.
 *J. G. Haub, Ph. D., Assoc. Prof. Zool.
 *J. L. Isenberg, M. S., Instr. Zool.

⁴ See also experiment station staff.

Zoology and Entomology-Continued

- *J. N. Knull, M. S., Assoc. Prof. and Curator of Insects.

 *W. J. Kostir, M. A., Prof. Zool.

 *T. H. Langlois, Ph. D., Prof. Zool. and Dir.

 *Franz Theodore Stone Lab.

 *J. N. Miller, Ph. D., Prof. Zool.

 *J. N. Miller, Ph. D., Assoc. Prof. Zool.

 *W. C. Myser, B. S., Instr. Zool.

 *C. R. Neiswander, Ph. D., Prof. Ent.4

 *R. B. Neiswander, Ph. D., Assoc. Prof. Ent.4

 †T. H. Parks, M. S., Ent. Spec.

Ohio Agricultural Experiment Station, Wooster

†Station staff.

Agronomy:

- †G. W. Volk, Ph. D., Chair. (P. O., Colum-
- bus).
 A. Lamb, Ph. D., Assoc. Chair. (Cereal †C. A. Lamb, Ph. D., Assoc. Chair. (Vereal Brdg.).

 †M. A. Bachtell, B. S., Assoc.

 †E. E. Barnes, Ph. D., Assoc.

 †C. E. Bode, M. S., Asst. (Baking Technol.: Coop. U. S. D. A.).

 (Coop. U. S. D. A.).

 †H. L. Borst, Ph. D., Assoc. (Soil Conserv.: Coop. U. S. D. A.).

 †R. R. Davis, Ph. D., Asst. (P. O., Columbus).

- †J. G. Dean, Jr., M. S., Asst. (P. O., Columbus)

- †J. L. Haynes, Ph. D., Assoc. †H. K. Heizer, B. S., Asst. (Cereal Chem.: Coop. U. S. D. A.).
- †Nicholas Holowaychuk, M. S., Asst. (P. O., Columbus). †L. T. Kissel, B. A., Asst. (Coop. U. S.
- D. A.). †W. P. Martin, Ph. D., Assoc. (P. O., Co-
- lumbus H. Morse, Ph. D., Assoc. (P. O., Co-
- lumbus).

- † Lumbus).
 † J. H. Petro, B. S., Asst. (P. O., Columbus).
 † C. F. Rogers, Ph. D., Assoc.
 † L. C. Saboe, Ph. D., Assoc.
 † L. C. Saboe, Ph. D., Assoc. (Coop. U. S. D. A.: P. O., Columbus).
 † J. D. Sayre, Ph. D., Assoc. (Plant Physiol.: Coop. U. S. D. A.).
 † C. J. Schollenberger, A. B., Assoc. (Soil Chem.: Coop. U. S. D. A.).
 † R. H. Simon, A. M., Asst. (Soil Chem.).
 † G. H. Stringfield, M. S., Assoc. (Corn Brdg.: Coop. U. S. D. A.).
 † L. E. Thatcher, Ph. G., Assoc. (Field Crops).
- †L. E. Thatcher, Crops) †C. J. Willard, Ph. D., Assoc. (P. O., Co-
- †J. H. Wilson, B. S., Asst. (Chem. and Cli-
- mat.). T. Yamazaki, M. S., Asst. (Coop. U. S.
- D. A.).

Animal Science:

- †Paul Gerlaugh, M. S., Actg. Chair. †D. S. Bell, M. S., Assoc. †O. G. Bentley, Ph. D., Asst. †R. C. Burrell, Ph. D., Assoc. (P. O., Colum-
- †R. C. Burren, Fh. B., Assoc. (1. 0., 0stanbus).
 †E. W. Burroughs, Ph. D., Assoc. (P. 0., Columbus).
 †J. W. Hibbs, Ph. D., Assoc.
 †C. H. Hunt, Ph. D., Assoc.

See also experiment station staff.

Zoology and Entomology—Continued

Animal Science-Continued †L. A. Kauffman, M. S., Asst. (P. O., Colum-

*Alvah Peterson, Ph. D., Prof. Ent.
*J. W. Price, Ph. D., Prof. Zool.
*L. S. Putnam, M. S., Asst. Prof. Zool.
\$\frac{t}{2}\$C. A. Reese, B. S., Apiculture Spec.
*C. R. Reese, M. A., Instr. Zool.
*D. C. Rife, Ph. D., Prof. Zool.
*J. P. Sleesman, Ph. D., Assoc. Prof. Ent.
*J. N. Spuhler, Ph. D., Asst. Prof. Zool. and
Ent.

*W. M. Tidd, Ph. D., Assoc. Prof. Zool. *C. E. Venard, Ph. D., Assoc. Prof. Zool.

- bus).
 †L. E. Kunkle, M. S., Asst. (P. O., Columbus).
- †D. C. Rife, Ph. D., Asst. (P. O., Columbus). †W. L. Robison, M. S., Assoc. †Sylvia Taylor, B. A., Asst.

Botany and Plant Pathology:

- †B. S. Meyer, Ph. D., Chair. (P. O., Columbus).
 †H. C. Young, Ph. D., Assoc. Chair.
 †L. J. Alexander, Ph. D., Assoc.
 †R. S. Davidson, Ph. D., Asst.
 †Nancy J. Hockman, B. A., Asst.
 †E. F. Paddock, Ph. D., Asst. (P. O., Columbus).

- lumbus).
- †H. A. Runnels, M. S., Asst. †R. C. Thomas, M. A., Assoc. †P. V. V. Weber, Ph. D., Asst. †J. D. Wilson, Ph. D., Assoc. †H. F. Winter, B. S., Asst.

Dairy Industry:

- †Fordyce Ely, Ph. D., Chair. (P. O., Colum-
- †C. F. Monroe, M. S., Assoc. Chair. †L. H. Burgwald, M. S., Assoc. (P. O., Columbus).
- †L. C. Ferguson, D. V. M., Ph. D., Assoc. (P. O., Columbus).
 †Homer Gall, Asst. (P. O., Columbus).
 †L. O. Gilmore, Ph. D., Assoc. (P. O., Columbus).

- †I. A. Gould, Ph. D., Assoc. (P. O., Colum-

- 11. A. Goldin, Fli. D., Assoc. (F. O., Cotumbus).

 † J. W. Hibbs, Ph. D., Assoc.

 † C. E. Knoop, M. S., Asst.

 † T. M. Ludwick, Ph. D., Assoc. (P. O., Columbus).
- †A. D. Pratt, Ph. D., Assoc. †W. L. Slatter, Ph. D., Assoc. (P. O., Co-lumbus).
- †T. S. Sutton, Ph. D., Assoc. (P. O., Columbus). †R. G. Washburn, A. B., Asst.

Economics (Agr.) and Sociology (Rural):

- †J. I. Falconer, Ph. D., Chair. (P. O., Co
 - tumbus). †R. A. Bailey, M. S., Asst. (P. O., Colum-
 - bus). H. Baker, M. S., Asst. (P. O., Colum-†R. H. Baker, M. S., Account bus).
 †C. P. Baumel, B. S., Asst. (P. O., Columbus).

Economics (Agr.) and Sociology (Rural)-Con. †E. F. Baumer, M. S., Asst. (P. O., Colum-

bus)

†R. H. Blosser, M. S., Assoc. (P. O., Columbus)

B. Evans, M. S., Asst. (P. O., Colum-

†M. B. Evalis, R. S., Los.
 bus).
 †F. L. Gillespie, B. S., Asst. (P. O., Columbus).
 †G. F. Henning, Ph. D., Assoc. (P. O., Columbus).
 †A. R. Mangus, Ph. D., Assoc. (P. O., Columbus).

lumbus).

lumbus). †F. B. McCormick, M. S., Asst. (P. O., Co-

lumbus

†H. R. Moore, M. S., Assoc. (P. O., Columbus).
†R. C. Scott, Ph. D., Assoc. (P. O., Columbus).
†J. W. Sharp, M. S., Asst. (P. O., Columbus).

†J. W. Sharp, M. S., Acc., bus).
†R. W. Sherman, Ph. D., Assoc. (P. O., Columbus).

Editorial:

†F. C. Byrnes, B. S., Editorial Asst. (P. O.,

Columbus).
†H. L. Cleal, M. S., Editor.
†Helen H. Hahn, B. E., Libr.
†John Tolk, Photog.

Engineering (Agr.):

†G. W. McCuen, B. S., Chair. (P. O., Columbus).

†Truman Gains, B. S., Asst. (P. O., Colum-

bus). . H. Johnson, B. A. E., Asst. (P. O., Co-

Entomology:

†D. F. Miller, Ph. D., Chair. (P. O., Colum-

bus).
†C. R. Neiswander, Ph. D., Assoc. Chair.
†C. R. Cutright, Ph. D., Assoc.
†W. E. Dunham, Ph. D., Asst. (P. O., Colum-†W. E. Dunnabus.)
†E. T. Hibbs, M. S., Asst.
†R. B. Neiswander, Ph. D., Assoc.
†J. B. Polivka, Ph. D., Asst.
†R. W. Rings, Ph. D., Asst. (Coop. U. S.

Forestry:

†O. D. Diller, Ph. D., Chair. †W. R. Anderson, M. F., Asst. †E. A. Conway, M. F., Asst. (P. O., Chilli-cothe).

†L. L. Knudsen, Ph. D., Asst. †J. W. Meteer, M. F., Asst.

Home Economics:

†Gladys A. Branegan, Ph. D., Chair. (P. O.,

Columbus).

†Mrs. Mary B. Patton, Ph. D., Assoc. Chair.
(P. O., Columbus).

†Lois E. Gilmore, Ph. D., Assoc. (P. O., Co-

tumbus).
†Mrs. Grace W. Glenn, B. S., Asst. (P. O., Columbus).

†Helene Heye, Ph. D., Assoc. (P. O., Colum-

bus). †Ruth Hoeflin, M. A., Asst. (P. O., Colum-

bus). †Christine Newark, Ph. D., Assoc. (P. O.,

Columbus). †Mrs. Inez Prudent, Ph. D., Assoc. (P. O.,

Columbus).

Home Economics-Continued

†Mrs. Elaine K. Weaver, Ph. D., Assoc. (P. O., Columbus). †Marion A. Wharton, Ph. D., Assoc. (P. O., Columbus).

Harticulture:

†F. S. Howlett, Ph. D., Chair. †E. K. Alban, Ph. D., Assoc. (P. O., Columbus).

†R. R. Barton, M. S., Asst. †J. M. Beattie, Ph. D., Asst. †H. D. Brown, Ph. D., Assoc. (P. O., Colum-

†H. D. Brown, Fn. D., Assoc. (1. C., bus).

†John Bushnell, Ph. D., Assoc. (P. O., Columbus).

†Donald Comin, M. S., Asst.
†C. W. Ellenwood, Assoc.
†W. A. Gould, Ph. D., Asst. (P. O., Columbus).

†F. O. Hartman, M. S., Asst. (P. O., Columbus).

†F. O. Hartman, M. S., Asst. (P. O., Columbus).

humbus).
†R. G. Hill, Jr., M. S., Asst.
†I. C. Hoffman, Ph. D., Assoc.
†F. E. Johnstone, Jr., Ph. D., Assoc. (P. O., Columbus)

C. Kiplinger, M. S., Asst. (P. O., Columbus †Alex Laurie, M. A., Assoc. (P. O., Colum-

bus). Poultry Science:

†E. L. Dakan, B. S., Chair. (P. O., Columbus),
†D. C. Kennard, B. S., Assoc. Chair.
†V. D. Chamberlin, B. S., Asst.
†R. E. Cray, M. S., Assoc. (P. O., Columbus),
†R. G. Jaap, Ph. D., Assoc. (P. O., Columbus)

bus).

†A. R. Winter, Ph. D., Assoc. (P. O., Columbus).

Veterinary Science:

†B. H. Edgington, D. V. M., Chair. (P. O., Reynoldsburg). †C. R. Cole, D. V. M., Ph. D., Asst. (P. O.,

Columbus). Norma A. Frank, M. S., Asst. (P. O., Rey-

noldsburg).
†H. E. Geyer, D. V. M., Asst. (P. O., Columbus).
†J. H. Helwig, D. V. M., M. S., Asst. (P. O.,

Columbus)

tw. L. Ingalls, D. V. M., M. S., Asst. (P. O., Columbus).

N. B. King, D. V. M., Asst. (P. O., Reynolds-

burg).
†F. R. Koutz, D. V. M., M. S., Asst. (P. O., Columbus).

. R. Krill, B. S., D. V. M., Assoc. (P. O., Columbus).

†G. S. Mechling, D. V. M., Asst. (P. O., Columbus)

†R. E. Rebrassier, D. V. M., M. S., Assoc. (P. O., Columbus).
†W. G. Venzke, D. V. M., Ph. D., Asst. (P. O., Columbus).

Substations:

T. F. Wonderling, B. S., Supt. Northwestern Expt. Farm, P. O., Holgate— Orrin Nichols, Mgr. Southeastern Expt. Farm., P. O., Carpen-

J. P. Hamill, B. S., Mgr. Animal Disease Laboratories, P. O., Reynoldsburg--. *Mar*.

Substations-Continued

Belmont County Expt. Farm, P. O., St.

Belmont County Expt. Farm, 1. 0., 8s.

Clairsville—
H. R. McMahon, Mgr.
Hamilton County Expt. Farm, P. 0., Mt.

Healthy—
W. L. Jones, B. S., Mgr.
Madison County Expt. Farm, P. 0., Lon-

H. W. Rogers, B. S., Mgr.

Substations-Continued

Mahoning County Expt. Farm, P. O., Can-

feid—Cecil Edwards, Mgr.
Muck Crops Expt. Farm, P. O., Willard—Edward Postema, Mgr.
Trumbull County Expt. Farm, P. O., Cort-

C. F. Kreitler, Mgr.

OKLAHOMA

Oklahoma Agricultural and Mechanical College and the Agricultural Experiment Station, Stillwater

*College faculty. †Station staff. Leave of absence. ‡Extension staff.

*†W. L. Blizzard, B. S., Dean School of Agr., Dir. of Sta.

†Shawnee Brown, Dir. of Ext. Div.

*O. S. Willham, Ph. D., Vice Dean School of Agr.

†L. E. Hawkins, Ph. D., Vice Dir. of Sta.

*†R. J. Jones, Ph. D., Assoc. Dean of Agr., Assoc. Dir. of Sta.

†H. H. Finnell, B. S., Asst. Dir. of Sta. (P. O., Goodwill).

*C. G. Hunt, M. S., Agr. Coordinator.

*†C. R. Strong, Business Mgr.

Agronomy:

*†H. F. Murphy, Ph. D., Prof. and Head of

*†H. F. Murphy, Ph. D., Prof. and Head of Dept.
†W. E. Bauman, B. S., Soils Lab. Tech.
(U. S. D. A.).
†O. H. Brensing, B. S., Asst. Soil. Sci.
†J. S. Brooks, Ph. D., Assoc. Agron. (Corn).
†\$C. L. Canode, M. S., Asst. Agron. (Alfalfa).
‡J. W. Chaffin, M. S., Ext. Agron.
†Roy Chessmore, M. S., Asst. Agron. (Pasture Corns).

ture Crops).
F. Davies, M. S., Assoc. Prof. and Assoc. Agron. (Sorghums).
E. Denman, M. S., Asst. in Agron.

Assoc. Agron. (Surphamo).
†C. E. Denman, M. S., Asst. in Agron. (Grasses).
†L. E. Derr, B. S., State Soil Sci. (U. S. D. A.).
†S. B. Durham, B. S., Pasture Spec.
†W. C. Elder, B. S., Asst. Agron. (Weed

Control)

Control).

‡J. D. Fleming, B. S., Asst. Ext. Agron.

†H. M. Galloway, M. S., Soil Survey Party
Chief (Coop. U. S. D. A.).

†N. M. Gober, Cotton Lab. Tech.

‡E. L. Granstaff, B. S., Ext. Wheat Spec.

†J. M. Green, Ph. D., Agron. (Cotton: Coop.
U. S. D. A.).

*†H. J. Harper, Ph. D., Prof. Agron.; Agron.

*†H. J. Harper, Ph. D., Prof. Agron.; Agron. (Soils).

*†W. W. Huffine, M. S., Asst. Prof. and Asst. Agron.

*†J. C. Treland, Ph. D., Prof. Agron.; Agron.

†B. R. Jackson, B. S., Asst. in Agron.

†\$T. H. Johnston, M. S., Asst. Prof. and Asst. Agron.

*†M. D. Jones, Ph. D., Assoc. Prof. and

Assoc. Agron.
†M. G. Keathley, B. S., Asst. in Agron.
(Cotton).

†L. L. Ligon, M. S., Assoc. Prof. and Assoc. Agron. †E. S. Oswalt, M. S., Asst. Agron. (Founda-

†E. S. Oswalt, M. S., Asst. Agron. (Foundation Seed).
†R. M. Oswalt, B. S., Asst. Agron.
†Hartwill Fass, M. S., Asst. in Field Crops.
*R. B. Pfeifer, Ph. D., Asst. Prof. Agron.
†Russell Pierson, B. S., Asst. Agron. (Seed Certification).
†M. J. Plice, Ph. D., Assoc. Prof. and Assoc.
Agron. (Soils).

†\$L. W. Reed, M. S., Asst. Prof. and Asst.
Agron. (Soils).

Agron. (Soils).

*†R. M. Reed. M. S., Asst. Prof. and Asst. Agron. (Soils).

Agron. (Soils).
. L. Richardson, B. S., Asst. in Agron.

#Edd Roberts, B. S., Ext. Soil Conserv.

Agronomy-Continued

**Agronomy—Continued

**H. F. Rouk, B. S., Asst. Prof. Agron.

†*A. M. Schlehuber. Ph. D., Agron. (Small Grains: Coop. U. S. D. A.).

†*J. B. Sieglinger, M. S., Agron. (Sorghums: Coop. U. S. D. A.).

†*J. W. Smith, B. S., Asst. in Agron. (Corn).

**S. M. Sooter, B. S., Instr. Agron.

**H. W. Staten, M. S., Prof. Agron.

†*J. P. Stephens, M. S., Asst. in Agron. (Weed Control).

*†O. E. Stout, B. S., Foreman Agron. Farm.

†*N. B. Thomas, B. S., Asst. in Agron. (Corn). (Corn).

‡R. O. Woodward, B. S., Asst. Ext. Agron.

Animal Husbandry:

*†A. E. Darlow, Ph. D., Prof. and Head of Dept.

†Fred Ahrberg, B. S., Ext. An. Husb. †W. J. Beck, M. S., Assoc. Ext. An. Husb. *†Glen Bratcher, M. S., Asst. Prof. and

*†Glen Bratcher, M. S., Asst. Prof. and
Asst. An. Husb.

†W. D. Campbell, B. S., Tech., Beef Cattle.

†Doyle Chambers, Ph. D., Assoc. Prof. and
Assoc. An. Husb.

†\$A. A. Heidebrecht, M. S., Asst. Prof. and
Asst. An. Husb.

†J. C. Hillier, M. S., Assoc. Prof. and Assoc.
An. Husb. (Meats)

*(Clark Kinkead, B. S., Farm Supt.
*R. A. Long, M. S., Instr. An. Husb.

†A. B. Nelson, Ph. D., Asst. Prof. and
Asst. An. Husb.

†L. S. Pope, M. S., Asst. Prof. and Asst.
An. Husb.

†O. B. Ross, Ph. D., Assoc. Prof. and Assoc.
An. Husb.

*†O. B. Ross, Ph. D., Assoc. Prof. and Assoc. An. Husb.

*L. E. Walters, M. S., Asst. Prof. An. Husb.

*†J. A. Whatley, Jr., Ph. D., Assoc. Prof. and Assoc. An. Husb. (Coop. U. S. D. A.).

*†C. K. Whitehair, Ph. D., Asst. Prof. and Asst. An. Husb.

Botany and Plant Pathology:

*†W. W. Hansen, Ph. D., Prof. and Head of Dept.

†L. A. Brinkerhoff, M. S., Assoc. Plant Path. (Cotton: Coop. U. S. D. A.). *H. I. Featherly, Ph. D., Prof. Bot. and Plant Path.

*G. J. Ikenberry, Ph. D., Assoc. Prof. Bot. *Dorothy V. Leake, Ph. D., Assoc. Prof. Bot. and Plant Path.

†L. S. Morrison, M. S., Asst. in Bot. and Plant Path.

Botany and Plant Pathology-Continued

*O. C. Schultz, B. S., Assoc. Prof. Bot. and Plant Path.

*Robert Stratton. M. A., Assoc. Prof. Bot. and Plant Path.

†F. B. Struble, Ph. D., Assoc. Plant Path.

†D. F. Wadsworth, M. S., Asst. Plant Path.

Chemistry (Agr. Res.):

*†V. G. Heller, Ph. D., Prof. and Head of Dept. *†W. D. Gallup, Ph. D., Prof. Chem.; Res.

*†W. D. Gallup, Ph. D., Proj. Unem.; Kes. Chem.

†M. E. Gibson, B. S., Analyst.

†R. W. MacVicar, Ph. D., Assoc. Prof. and Assoc. Res. Chem.

†Ruth E. Reder, Ph. D., Assoc. Res. Chem.

†J. E. Webster, Ph. D., Assoc. Prof. and

Assoc. Res. Chem.

Dairving:

Dairying:

*†C. L. Norton, Ph. D., Prof. and Head of Dept.

*†E. R. Berousek, M. A., Asst. Prof. and Asst. in Dairying.

‡J. W. Boehr, M. S., Ext. Dairyman.

*†H. W. Cave, M. S., Dairyman (Prod.).

*†P. E. Johnson, M. S., Asst. Prof. Dairying; Asst. in Dairy Mfg.

*†A. H. Kuhlman, Ph. D., Prof. Dairying; Dairyman (Prod.).

*†M. S. Loewenstein, M. S., Asst. Prof. and Asst. in Dairying.

*P. C. McGilliard, B. S., Asst. Prof. Dairying (Prod.).

*†H. C. Olson, Ph. D., Dairyman (Mfg.).

‡J. E. Pendleton, B. S., Asst. Dairy Spec.

*†A. C. Smith, Ph. D., Asst. Prof. and Asst. in Dairying (Mfg.).

‡L. H. Stinnett, M. S., Ext. Dairyman.

*†J. W. Watson, B. S., Farm Supt.

Economics (Agr.):

*†Peter Nelson, Ph. D., Prof. and Head of

*†L. V. Blakley, M. S., Asst. Prof. and Asst. Agr. Econ.

*K. B. Boggs, B. S., Instr. Agr. Econ.

*†J. D. Campbell, M. S., Asst. Prof. and Asst.

Agr. Econ. *†G. P. Collins, M. S., Assoc. Prof. and Assoc.

*†K. C. Davis, M. S., Assoc. Froj. and Assoc. Agr. Econ.

†K. C. Davis, M. S., Asst. Prof. and Asst. Agr. Econ.

†Ada B. Eden, B. S., Res. Asst. in Agr. Econ.

‡J. R. Enix, B. S., Asst. Ext. Econ.

‡Evelyn Funk, B. S., Asst. Ext. Econ.

†A. W. Jacob, M. S., Ext. Econ. Mktg.

†A. L. Larson, Ph. D., Prof. Agr. Econ.; Agr. Econ.

Econ

*†R. B. Marshall, B. S., Asst. Prof. and Asst. Agr. Econ. in Mktg.

‡Ford Mercer, B. S., Asst. Mktg. Spec.

‡Tl. A. Parcher, M. S., Asst. Prof. and Asst. Agr. Econ.

*†R. I. Tontz, M. S., Asst. Prof. and Asst. Agr. Econ.

*†E. A. Tucker, M. S., Asst. Prof. and Asst. Agr. Econ.

*†F. I. Underwood, Ph. D., Assoc. Prof. and Asst. Agr. Econ.

‡Mabel A. Walker, M. S., Asst. Ext. Econ.

‡Mabel A. Walker, M. S., Asst. Prof. and Asst. Agr. Econ. Agr. Econ.

Editorial-See Journalism.

Education (Agr.):

*C. L. Angerer, A. M., Prof. and Head of

*C. I. Angerer, A. M., 1703. who I come of Dept.

*J. D. Elliott, M. S., Instr. Agr. Ed.

*C. E. Kinney, M. S., Asst. Prof. Agr. Ed.

*D. M. Orr, M. S., Assoc. Prof. and Teacher Trainer in Agr. Ed.

*R. R. Price, M. S., Asst. Prof. Agr. Ed.

*C. G. White, M. S., Asst. Prof. and Teacher Trainer in Agr. Ed.

Engineering (Agr.):

*†E. W. Schroeder, M. S., Prof. and Head of

*†E. W. Schroeder, M. S., Prof. and Head of Dept.

F. R. Crow, B. S., Instr. Agr. Engin.

*E. R. Daniel, B. S., Asst. Prof. Agr. Engin.

*J. A. Dilts, B. S., Asst. Prof. Agr. Engin.

*L. W. Hazen, B. S., M. E., Prof. Agr. Engin.

*G. W. A. Mahoney, B. S., Instr. Agr. Engin.

*J. J. McDow, M. S., Instr. Agr. Engin.

*†G. L. Nelson, B. S., Assoc. Agr. Engin.

*†W. J. Oates, M. S., Prof. Agr. Engin.; Agr. Engin.

Engin. C. V. Phagan, B. S., Ext. Agr. Engin.

Entomology:

*†F. A. Fenton, Ph. D., Prof. and Head of Dept.
*†Donald Ashdown, Ph. D., Assoc. Prof. and

Assoc. Ent.

*†G. A. Bieberdorf, M. S., Asst. Prof. and
Asst. Ent.

*†C. H. Brett, Ph. D., Asst. Prof. and Asst.

*†C. H. Brett, Ph. D., Asst. Froj. una Asso. Ent.
†R. G. Dahms, Ph. D., Asst. Ent. (Coop. U. S. D. A.).

*†D. E. Howell, Ph. D., Prof. Ent.; Ent. †Stirling Kyd, M. S., Assoc. Ext. Ent.
†C. F. Stiles, M. S., Ext. Ent.
†R. R. Walton, M. S., Asst. Ent.

Extension Administration and Supervision:

†Shawnee Brown, Dir. †\$L. H. Brannon, M. S., Asst. Dir. †Norma M. Brumbaugh, B. S., State Home Dem. A at.

Pem. Agt. ‡P. G. Adams, B. S., State Club Leader. ‡Mary Abbott, B. A., Asst. 4-H Club Leader. ‡Alice Carlson, B. S., Assoc. 4-H Club Leader.

Leader.
Leader.
Lee Craig. B. S., Dist. Agt.
Dan Diehl, Dist. Agt.
Jack Herron, B. S., Assoc. 4—H Club Leader.
J. M. Ives, B. S., Dist. Agt.
Zella King, B. S., Dist. Agt.
E. K. Lowe, B. S., Dist. Agt.
Lemna O. Maloney, B. S., Dist. Agt.
Esther L. Martin, B. S., Dist. Agt.
Ruby Nowlin, B. S., Dist. Agt.

Forestry:

*†G. R. Durrell, B. S., Prof. and Head of Dept.

*†Michel Afanasiev, Ph. D., Assoc. Prof. and Assoc. For.

*†E. R. Linn, M. F., Assoc. Prof. and Assoc. For.

‡A. C. Morley, B. S., Asst. Ext. For.

‡H. P. Rigdon, B. S., Ext. For.

*†Nathaniel Walker, B. S., Assoc. Prof. and Assoc. For.

Home Economics:

*Nora A. Talbot, A. M., Dean of Div.

*Nora A. Talbot, A. M., Dean of Div.

*Mrs. Adaline M. Ledbetter, M. S., Prof. and Head Dept. of Household Arts.

*Virginia Messenger, Ph. D., Prof. and Head Dept. of Home Life.

*Mille V. Pearson, Ph. D., Prof. and Head Dept. of Home Econ. Ed.

*†Daisy I. Purdy, Ph. D., Prof. and Head Dept. of Household Sci.; Head Home Econ. Res.

*Innelle Allison, M. S. Asst. Ext. Clothing Janelle Allison, M. S., Asst. Ext. Clothing

Spec. *Ardyth Arbuckle, M. S., Asst. Prof. Home

Life. tola Armstrong, M. S., Ext. Clothing Spec. *Elaine Barber, M. S., Instr. Household

*Mary C. Barnes, M. A., Asst. Prof. House-hold Sci.

*Elsa B. Bate, Ph. D., Assoc. Prof. Home

Life. *Mary B. Carter, M. A., Assoc. Prof. House-

hold Sci.
*Joanna Chapman, M. S., Assoc. Prof. Home

Econ. Ed. *Larra Z. Cole, M. S., Assoc. Prof. Home Econ. Ed.

Home Economics—Continued

*Patricia R. Collins, M. S., Asst. Prof. Household Sci.

*Edith S. Cruser, M. S., Asst. Prof. Household Sci.

*Mary E. Currier, M. S., Assoc. Prof. House-

*Myrle L. Dacken, M. A., Assoc. Prof. Home Econ. Ed. *Lois Drain, M. S., Asst. Prof. Home Econ. Ed.

*Dorothy J. Ekern, M. S., Asst. Prof. Home

*Rowan Elliff, M. A., Assoc. Prof. Home

Econ. Ed. *Brenda Gould, M. A., Assoc. Prof. House-

hold Arts. argaret Hamilton, M. A., Asst. Prof. *Margaret_

*Margaret Hamiton, M. A., Asst. Prof. House-Home Life.
*Lois B. Hastings, M. S., Asst. Prof. House-hold Sct.
*Empo Henry, M. S., Assoc. Prof. House-hold Arts.

*Josephine Hoffer, M. S., Instr. Home Life. *Bessie L. Hudson, M. A., Instr. Household

Arts

*Lota G. Jeffrey, M. S., Asst. Prof. Home Econ. Ed. *Anna M. Johnson, M. S., Assoc. Prof. Home Econ. Ed.

*Wynelle Johnson, M. S., Asst. Prof. Household Arts. *Helen Kadel, M. S., Asst. Prof. Household

Arts.
*Loren G. Kellar, M. S., Asst. Prof. Home
Econ. Ed.
**Katharine W. Kumler, Ph. D., Assoc. Prof.

Home Econ. Ed. *§ Mary E. Leidigh, M. S., Assoc. Prof.

Household Sci. *Thelma Leonard, M. S., Instr. Home Econ.

*Lucile Logan, M. A., Asst. Prof. House-

*Clucie Logar, M. K., hotel Arts.

*Gladys B. Marshall, M. S., Asst. Prof.

Home Life.

*Clarice MacVicar, M. S., Assoc. Prof. Home

Life

*Ethel E. McClure, M. A., Asst. Prof. Household Arts

‡Venie A. McDuffie, M. S., Ext. Econ., Home Mgt.

*Martha R. McPheters, B. S., Food and Nutr. Spec. *Sara D. Meador, M. S., Assoc. Prof. House-

hold Arts.
artha Merrifield, M. A., Asst. Prof.

*Martha

*Martha Merrifield, M. A., Asst. Proj. Household Arts.

*Anniwake Miller, B. S., Instr. Home Life.

‡Mrs. Leta Moore, M. S., Spec. in Family Life.

*†Eula F. Morris, M. S., Asst. Prof. Household Sci. and Home Econ. Res.

*Lela O'Toole, Ph. D., Prof. Home Econ. Ed.

*Leevera Pepin, M. S., Asst. Prof. Household Arts.

hold Arts.

*Ruth Petermann, B. S., Asst. Ext. Food and Nutr. Spec. *Marguerite Ross, B. S., Instr. Household

Sci.

*†Dorothy Saville, M. S., Prof. Household Arts and Home Econ. Res. *Elizabeth Selke, M. S., Asst. Prof. House-

hold Sci.

*Martha Sharrock, B. S., Instr. Home Life. *Gene Shelden, M. S., Asst. Prof. Household Arts.

*Carolyn D. Strieby, M. S., Assoc. Prof. Home Life. *Mrs. Ruth C. Taylor, M. S., Asst. Prof. Home Econ. Ed. *Wathena Temple, M. S., Asst. Prof. House-

*J. C. Walters, M. A., Asst. Prof. Home

*Girdie B. Ware, M. S., Asst. Prof. Home Life.

Home Economics-Continued

*Alma E. White, M. A., Assoc. Prof. House-

*Alma E. White, M. A., Assoc. 1707. Howe hold Sci.

*Ruth C. Whitehouse, M. S., Asst. Prof. Home Life.

*Ilse H. Wolf, M. A., Assoc. Prof. Home Econ. Ed.

Econ *Eva Wright, M. A., Asst. Prof. Household Sci.

*Nannie Yoakum, B. S., Instr. Household

Horticulture:

Arts.

*†F. B. Cross, Ph. D., Prof. and Head of Dept. *†G. G. Antle, M. A., Asst. Prof. and Asst.

Hort. *†H. B. Cordner, Ph. D., Prof. Hort.; Hort.

*†H. B. Cordner, Ph. B., Froj. Hotel, Hotel (Vegs.) *†N. J. Cupp, B. S., Farm Supt. *†R. P. Ealy, M. S., Asst. Prof. and Asst. Hort. †J. C. Garrett, B. S., Asst. Ext. Hort. *†H. A. Hinrichs, M. S., Asst. Prof. and Asst.

Hort *†E. R. Houston, M. S., Asst. Prof. and Asst.

Hort. *†W. R. Kays, M. S., Asst. Prof. and Asst.

Hor *Fred LeCrone, M. S., Assoc. Prof. Hort. *†JoAnn McArthur, B. S., Instr. and Asst. in

† HOTT. †D. C. Mooring, M. S., Asst. Ext. Hort. †F. A. Romshe, B. S., Assoc. Prof. and Assoc. Hort. †H. J. Thompson, M. S., Lab. Tech. ‡E. L. Whitehead, B. S., Ext. Hort.

Journalism (Agr.):

*†C. E. Trout, M. S., Prof. Journalism; Editor

*Burnis Arnold, B. S., Ext. Radio Spec.

*R. H. Burley, B. S., Asst. Editor.

*R. M. Caldwell, A. B., Asst. Prof. Journalism.

*†G. F. Church, M. A., Assoc. Prof. Journal-ism; Assoc. Editor. *J. W. Hamilton, M. S., Asst. Prof. Journal-

ism.

****.
†Edd Lemons, Ext. Editor.
†A. E. Pryor, B. A., Editorial Asst.
†D. E. Ryker, B. S., Asst. Ext. Editor.
†W. L. Stevens, M. S., Visual Ed. Spec.
*J. C. Stratton, M. A., Asst. Prof. Journalism.

Poultry Husbandry:

*†R. B. Thompson, B. S., Prof. and Head of Dept.

Dept.
†D. L. Brooks, B. S., Asst. in Poultry.

†C. C. Brunson, B. S., Instr. and Asst. in Poultry Husb.

†G. F. Godfrey, Ph. D., Assoc. Prof. and Assoc. Poultry Husb.

‡\$Hubert Lasater, M. S., Assoc. Ext. Poultry-

man.

*†Jack Long, M. S., Asst. Prof. and Asst. in Poultry Husb.

†G. W. Newell, Ph. D., Asst. Prof. and Asst. in Poultry Husb.

*C. A. Roberts, M. S., Assoc. Prof. Poultry Husb.

*†R. H. Thayer, M. S., Asst. Prof. and Asst. in Poultry Husb. (Nutr.).

‡H. G. Ware, M. S., Ext. Poultryman.

*†Cletis Williams, B. S., Instr. and Asst. in Poultry Husb.

*†C. N. Williams, B. S., Farm Supt.

Sociology and Rural Life:

*†O. D. Duncan, Ph. D., Prof. and Head of

tC. G. Bauman, B. S., Planning Organ. Spec.
†J. C. Belcher, M. A., Asst. Prof. and Asst.

*E. M. Day, M. S., Assoc. Prof. Sociol. *P. B. Foreman, Ph. D., Prof. Sociol. *J. F. Page, Ph. D., Prof. Sociol.

916781-51-8

Sociology and Rural Life-Continued

*†C. D. Roberts, M. S., Asst. Prof. and Asst.

Sociol. *†R. A. Rohwer, Ph. D., Asst. Prof. and Asst. Sociol.

Veterinary Research Institute:

†Herman Farley, D. V. M., Exec. Dir. †L. E. Foote, D. V. M., Assoc. Vet. and Agt. in Anaplasmosis (Coop. U. S. D. A.).

Miscellaneous:

*†J. N. Baker, M. S., Asst. Dir. Short Courses. *†Lucy G. Bonner, B. S., Libr. †J. M. Halbert, M. S., Coordinator for Junior

†C. E. Marshall, M. S., Assoc. Stat. †H. C. Potts, B. S., Dir. Short Courses.

Special Stations:

Fort Reno Expt. Sta., P. O., El Reno—D. F. Stephens, M. S., Supt. (U. S. D. A.).

L. A.).
Kiamichi Field Sta., P. O., Idabel—
H. R. Hedger, B. S., Supt.
J. K. Canant, Asst. Supt.
Okla. Cotton Res. Sta., P. O., Chickasha—
I. M. Parrott, B. S., Supt. (Coop. U. S.

D. A.).
J. W. Simmons, Field Tech. (Coop. U. S. D. A.).
R. H. Witt, B. S., Res. Asst. (Coop. U. S.

R. H. Witt, B. S., Res. Asst. (Coop. U. S. D. A.).
Okla. Irrig. Expt. Sta., P. O., Blair—
E. L. Williams, B. S., Supt.
Okla. Veg. Res. Sta., P. O., Bisby—
Charles Galeotti, B. S., Supt.
Panhandle Expt. Sta., P. O., Goodwell—
H. H. Finnell, B. S., Supt. (U. S. D. A.).
(Agr. staff of Panhandle A. & M. College)

(Agr. State of Fahnande A. & Alege (Agr. State of Fahnande A. & Alege (Agr. State agr. P. O., Sparks—E. D. Kenworthy, Supt. Perkins Farm, P. O., Perkins—S. C. Wallen, Foreman (Agron.).

Special Stations-Continued

Range Cattle Minerals Sta., P. O., Wilburton-

Joe Kinnikin, Foreman.

Red Plains Conserv. Expt. Sta., P. O., Guthrie-

H. A. Daniel, M. S., Project Supvr. (U. S. D. A.).

M. B. Cox, M. S., Agr. Engin. (Coop. U. S. D. A.).

H. M. Elwell, B. S, Soil Conserv. (U. S. D. A.).

W. W. Padgham, Agt. (Coop. U. S. D. A.).

S. E. Okla. Pasture Fert. Res. Sta., P. O.,

Coalgate— E. E. Miller, Foreman.

Okla. Soil Improvement Sta., P. O., S. E. Heavener— C. L. Majors, Foreman.

So. Okla. Soil Improvement Sta., P. O. Lone Grove

B. T. Ballew, Foreman.

S. W. Okla. Cotton Sta., P. O., Tipton—C. L. Fox, Foreman.

U. S. Southern Great Plains Field Sta., P. O., Woodward— R. A. Hunter, Asst. in Agron. (Sor-

ghums). Res. Inst. Field Lab., P. O., Paw-

Vet. Res. C. C. Pearson, D. V. M., Assoc. Vet. I. O. Kliewer, B. A., Lab. Tech. C. E. Wise, Foreman. Wheat Land Conserv. Expt. Sta., P. O.,

Cherokee C. C. Padgham, Agt. (Coop. U. S. D. A.).

Demonstration Farms:

W. F. Lott, B. S., Supt. A. & M. Farm (P. O., Oklahoma City).
J. F. Tomlinson, B. S., Farm Coordinator (P. O., Anadarko).

Langston University, Langston

- *G. L. Harrison, Ph. D., President. *S. H. Settler, M. S., Dir. Div. of Agr.

- *Clara Bennett, B. S., Child Development. ‡Paul Brooks, B. S., Ext. Supvr. *Esther S. Bunn, R. N., Health Ed. *Mrs. Elmira T. Davis, M. S., Libr. *Lenouliah Gandy, M. A., Voc. Home Econ. ‡Mrs. Helen F. Hewlett, B. S., Ext. Supvr. *T. H. Holland, M. S., Assoc. Prof. Dairying.

*D. C. Jones, M. S., Supvr. Teacher Training. *W. E. Seward, Farm Shop. *W. E. Sims, M. S., Agron. *Hollis Sterns, M. S., Poultry Husb. *Mrs. E. M. Washington, M. S., Clothing. *Mrs. Sadie G. Washington, M. A., Foods, Dir. Home Econ.

OREGON

Schools of Agriculture and Home Economics, the Agricultural Experiment Station, and the Federal Cooperative Extension Service of Oregon State Collège, Corvallis

*College faculty. †Station staff. ‡Extensic \$Leave of absence. ||Military leave. ‡Extension staff.

*C. D. Byrne, Ed. D., Chancellor of Higher Education (P. O., Eugene).

*A. L. Strand, Ph. D., President of College.

†‡F. E. Price, B. S., Dean School of Agr., Dir. of Sta., Dir. of Federal Coop. Ext.

†R. S. Besse, M. S., Assoc. Dir. of Sta.

‡F. L. Ballard, B. S., Assoc. Dir. Federal Coop. Ext.

*Mrs. Vera H. Brandon, Ph. D., Actg. Dean School of Home Econ.

Animal Husbandry:

*†F. F. McKenzie, Ph. D., Prof. and Head of

*†Ralph Bogart, Ph. D., Prof. An. Husb.; An. Husb. (Coop. U. S. D. A.).

‡J. T. Elings, B. S., County Ext. Agt.-at-Large.

*†J. B. Johnson, M. S., Asst. Prof. and Asst.

An. Husb.

Animal Husbandry—Continued †H. A. Lindgren, B. S., Ext. An. Husb. Spec. *†O. M. Nelson, M. S., Prof. An. Husb.; An.

*†A. W. Oliver, M. S., Assoc. Prof. and Assoc. An. Husb.

*†A. W. Oliver, M. S., Assoc. Prof. and Assoc. An. Husb.

*†C. E. Poulton, M. A., Assoc. Prof. and Assoc. in Range Mgt.

†A. C. Warnick, M. S., Asst. An. Husb.

Bacteriology:

- *†J. E. Simmons, M. S., Prof. and Head of
- *†W. B. Bollen, Ph. D., Prof. Bact. †P. R. Elliker, Ph. D., Prof. Bact.

Botany and Plant Pathology:

- *†S. M. Dietz, Ph. D., Prof. and Head of Dept. *†R. O. Belkengren, Ph. D., Assoc. Prof. and *†R. M. Dietz, Ph. D., Prof. and Head of Dept.

 *†R. O. Belkengren, Ph. D., Assoc. Prof. and Assoc. Bot.

 †Eileen B. Burke, M. A., Res. Asst.

 †A. J. Culver, M. S., Assoc. Plant Path. (Coop. U. S. D. A.).

 †B. F. Dana, M. S., Plant Path. (Coop. U. S. D. A.).

 *†Helen M. Gilkey, Ph. D., Prof. and Curator of Herbarium.

 †J. R. Hardison, Ph. D., Assoc. Plant Path. (Coop. U. S. D. A.).

 †G. R. Hoerner, M. S., Plant Path. Ext. Hop Spec. (Coop. U. S. D. A.).

 *†L. E. Jones, Ph. D., Asst. Prof. and Asst. Plant Path. (Coop. U. S. D. A.).

 †F. P. McWhorter, Ph. D., Plant Path. (Coop. U. S. D. A.).

 †J. A. Milbrath, Ph. D., Plant Path. (Coop. U. S. D. A.).

 †H. H. Millsap, Res. Asst. in Plant Path. (Coop. U. S. D. A.).

 †A. P. Steenland, B. S., Ext. Plant Path. Spec.

- †E. K. Vaughan, Ph. D., Plant Path.
 †E. K. Vaughan, Ph. D., Plant Path.
 *†R. A. Young, Ph. D., Assoc. Prof. and
 Assoc. Plant Path.

- Chemistry (Agr.):

 *†J. S. Butts, Ph. D., Prof. and Head of
 Dept.

 **D Dubl Db D Asst Prof. and Asst.
 - *†E. C. Bubl, Ph. D., Asst. Prof. and Asst. Chem. and Food Technol.
 †D. E. Bullis, M. S., Chem.
 †S. C. Fang, Ph. D., Res. Asst. in Agr. Chem.

 - †Howard Griffin, B. S., Res. Asst.

 †J. R. Haag, Ph. D., Prof. Chem.; Chem.
 (An. Nutr.).
 †Mrs. Dorothy D. Krebs, M. S., Res. Asst.
 in Agr. Chem.
 - in Agr. Chem.

 †Mrs. Alice S. Lawrence, B. A., Res. Asst. in Agr. Chem.

 †Nancy L. Lawrence, M. S., Res. Asst. †R. A. Magee, M. S., Asst. Chem. (Coop. U. S. D. A.).

 †L. F. Remmert, Ph. D., Asst. Chem.

 †R. H. Robinson, M. S., Chem. (Insect. and Fungicide).

 †J. R. Schubert, B. S., Res. Asst.

 †Barbara D. Stearman, B. S., Res. Asst. in Agr. Chem.

 †L. C. Terriere, Ph. D., Asst. Chem.

 †P. H. Weswig, Ph. D., Assoc. Biochem.

Dairy Husbandry:

- *†P. M. Brandt, A. M., Prof. and Head of Dept.

 †J. H. Byers, M. S., Res. Asst. in Dairy
 Husb.

 †J. L. Covington, B. S., Res. Asst. in Dairy
- Husb.

- Husb.

 †H. P. Ewalt, B. S., Ext. Dairy Spec.

 †I. R. Jones, Ph. D., Prof. Dairy Husb.;
 Dairy Husb.
 ‡R. W. Morse, B. S., Ext. Dairy Spec.

 †G. A. Richardson, Ph. D., Prof. Dairy
 Husb.; Dairy Husb.

 †G. H. Wilster, Ph. D., Prof. Dairy Mfg.;
 Dairy Husb.

 †F. B. Wolberg, M. S., Assoc. Prof. and
 Assoc. Dairy Husb.

 †J. O. Young, B. S., Res. Asst.

Economics (Agr.):

- *†G. E. Blanch, Ph. D., Assoc. Prof. and Actg. Head of Dept.
 †M. H. Becker, M. S., Asst. Agr. Econ.
 ‡L. R. Breithaupt, B. S., Ext. Agr. Econ.
 Stat.

Economics (Agr.) - Continued

- Paul Carpenter, B. S., Ext. Agr. Econ., Mktg. $\pm Edward$
- Coles. B. S., Ext. Agr. Econ.

- ‡Edward Coles, B. S., Ext. Agr. Econ.
 (Mkty. Reports).

 ‡B. W. Coyle, Ext. Agr. Econ.

 ‡F. H. Dahl, B. S., Ext. Agr. Econ.

 †\$G. B. Davis, M. S., Asst. Agr. Econ.

 †C. M. Fischer, M. S., Asst. Agr. Econ.

 ‡P. N. Goodmonson, B. S., Ext. Farm Woodlot Products Mktg. Spec.

 ‡Edward Gorman, B. S., Ext. Agr. Econ.
 (Mkty. Reports).

 †O. B. Hardy, B. S., Ext. Livestock Mktg.

 Spec.

 *†\$H. F. Hollands, Ph. D., Prof. Agr. Econ.;
 Agr. Econ.
- †§H. F. Hollands, Ph. D., Prof. Agr. Econ.,

 †Elvera C. Horrell, Junior Ext. Stat.

 ††E. A. Hyer, Ph. D., Asst. Prof. and Asst.

 Agr. Econ.

 †G. E. Korzan, M. S., Asst. Prof. and Asst.
- Agr. Econ. *†G. W. Kuhlman, Ph. D., Prof. Agr. Econ.;
- Agr. Econ. ‡W. W. Lawrence, B. S., Ext. Agr. Econ. *†D. C. Mumford, M. S., Prof. Agr. Econ.;
- Agr. Econ. ‡R. M. Ohling, B. S., Ext. Seed Mktg. Spec. *†C. V. Plath, Ph. D., Assoc. Prof. and Assoc. *†E. L. Potter, M. S., Prof. Agr. Econ.; Agr.
- †E. D. Potter, M. Z.,
 Econ.
 †Marion Thomas, B. S., Ext. Agr. Econ.
 †C. W. Vrooman, Ph. D., Asst. Prof. and
 Asst. Agr. Econ.

Editorial-See Journalism.

Education (Agr.):

A. Ten Pas, M. S., Asst. Teacher *H. A. Trainer.

Engineering (Agr.):

- *†J. B. Rodgers, A. E., Prof. and Head of

- - ## Agr. Engin.

 ## J. E. Harmond, B. S., Agr. Engin. (Coop. U. S. D. A.).

 ## G. Huber, M. S. M. E., Ext. Agr. Engin.

 - *†D. E. Kirk, B. S., Asst. Prof. and Asst. Agr.

- *†D. E. Kirk, B. S., Asst. Prof. and Asst. Agr. Engin.
 †L. M. Klein, B. S., Assoc. Agr. Engin.
 †L. M. Long, B. S., Instr. and Res. Asst. in Agr. Engin.
 *†D. R. Long, B. S., Instr. and Res. Asst. in Agr. Engin.
 *†R. N. Lunde, B. S., Assoc. Prof. and Assoc. Agr. Engin.
 †G. E. Page, M. S., Asst. Agr. Engin.
 *†H. R. Sinnard, M. S., Prof. Agr. Engin.;
 Agr. Engin. (Farm Structures).
 *†J. W. Wolfe, M. S., Asst. Prof. and Asst. Agr. Engin.

Entomology:

- **†D. C. Mote, Ph. D., Prof. and Head of Dept.

 *W. J. Chamberlin, Ph. D., Assoc. Prof.

 †H. H. Crowell, Ph. D., Asst. Ent.

 †S. E. Crumb, Jr., Ph. D., Asst. Ent.

 †E. A. Dickason, M. S., Res. Asst. in Ent.

 ‡R. W. Every, B. S., Ext. Ent. Spec.

 †S. C. Jones, M. S., Assoc. Ent. (Coop. U. S. D. A.)
- †S. C. Jones, M. S., Assue Env. (coop. c. D. A.).

 *C. H. Martin, Ph. D., Assoc. Prof.

 †H. E. Morrison, M. S., Asst. Ent.

 †R. G. Rosenstiel, Ph. D., Asst. Ent.

 *†H. A. Scullen, Ph. D., Prof. and Apiculturist (Coop. U. S. D. A.).

 †B. G. Thompson, Ph. D., Ent.

Experiment Station Administration:

- †F. E. Price, B. S., Dir. †R. S. Besse, M. S., Assoc. Dir.

Experiment Station Administration-Continued

†R. W. Henderson, B. S., Asst. to Dir. †R. M. Alexander, M. A., Asst. to Dir. †J. C. Li, Ph. D., Biometrician. †G. L. Crowe, Acct.

Extension Administration:

‡F. E. Price, B. S., Dir. ‡F. L. Ballard, B. S., Assoc. Dir. ‡C. W. Smith, B. S., Asst. Dir. ‡J. R. Beck, B. S., Asst. Dir. ‡Mrs. Azalea L. Sager, M. A., State Home

tMrs. Azalea L. Sager, M. A., State Home Dem. Leader.

L. J. Allen. M. S., State 4-H Club Leader.

Frances Clinton, M. S., State. Ext. Agt.

Winnifred K. Gillen, M. S., State. Ext. Agt.

Burton Hutton, B. S., State Ext. Agt.

Mrs. Mabel C. Mack, M. S., State Ext. Agt.

C. G. Monroe, B. S., State Ext. Agt.

J. W. Scheel, B. S., Asst. to the Dir.

L. L. Smith, M. S., State Ext. Agt.

Esther Taskerud, M. A., State Ext. Agt.

Eleanor Trindle, B. S., State Ext. Agt.

Farm Crops:

*†D. D. Hill, Ph. D., Prof. and Head of Dept.
†C. E. Allen, B. S., Res. Asst. in Farm Crops.
†Wheeler Calhoun, Jr., B. S., Res. Asst. in
Farm Crops (Coop. U. S. D. A.).
*†J. R. Cowan, M. S., Asst. Prof. and Asst.

Agron.
W. Dewey, B. S., Ext. Certification Spec.

†H. E. Finnell, M. S., Ext. Certification Spec. †D. W. Fishler, B. S., Asst. Agron. (Coop. U. S. D. A.). *†W. H. Foote, Ph. D., Assoc. Prof. and

Assoc. Agron.

Assoc. Agron.

†R. E. Fore, Ph. D., Prof. and Agron. (Coop. U. S. D. A.).

†V. H. Freed, M. S., Assoc. Prof., Assoc. Agron. and Assoc. Chem.

†R. W. Henderson, B. S., Geneticist (Coop. U. S. D. A.).

‡E. R. Jackman, B. S., Ext. Farm Crops

Spec. C. Johnson, B. S., Ext. Certification

Spec. Duisa A. Kanipe, B. S., Assoc. Prof.; Assoc. Bot. and Seed Tech. (Coop. U. S. *†Louisa A.

Assoc. Bot. and Seed Tech. (Coop. U. S. D. A.).

†K. R. Keller, Ph. D., Assoc. Agron. (Coop. U. S. D. A.).

‡I. L. Newton, B. S., Ext. Certification Spec.

†C. E. Poulton, M. A., Assoc. Prof. and Assoc. Agron. (Range).

†H. H. Rampton, M. S., Assoc. Agron. (Coop. U. S. D. A.).

‡M. D. Sather, B. S., Ext. Certification Spec.

†H. A. Schoth, M. S., Agron. (Coop. U. S. D. A.).

†H. A. Schotn, M. S., Ayron. (Coop. C. L. D. A.).

†H. L. Schudel, M. S., Instr. and Res. Asst. in Farm Crops.

‡Rex Warren, M. S., Ext. Farm Crops Spec.

Farm Service:

*†D. E. Jewell, B. S., Asst. Prof.; in charge of Dept.

Fish and Game Management:

*†R. E. Dimick, M. S., Prof. and Head of

Dept.

7C. E. Bond, M. S., Asst. Biol.

7A. S. Einarsen, B. S., Biol. (Coop. U. S. D. I.).

†Eugene Haydu, M. S., Asst. Biol.

†L. W. Kuhn, M. S., Asst. Prof. and Asst.

Biol.

*I Biol.

*J. B. Long, M. S., Assoc. Prof.

Food Technology:

†E. H. Wiegand, B. S., Prof. and Head of Dept. (Coop. U. S. D. A.).
†E. C. Bubl, Ph. D., Asst. Food Technol.
†K. E. Duggan, B. S., Res. Asst.
†W. F. Filz, M. S., Asst. Food Technol.
†E. W. Harvey, Ph. D., Project Leader, Sea

Foods Lab.

Food Technology—Continued
†D. K. Law, B. S., Res. Asst., Sea Foods Lab.
*†E. M. Litwiller, Ph. D., Prof. and Food
Technol.

†Ruth C. Miller, B. S., Res. Asst. in Food

*Technot.

*†T. B. Niven, Ph. D., Asst. Prof. and Asst.

*Tood Technot.

*Thomas Onsdorff, M. S., Assoc. Prof.

*Thomas Onsdorff, M. S., Assoc. Prof.

*C. E. Samuels, B. S., Asst. Prof. and Asst.

Food Technol.

Food Technol.

†Margaret J. Schwab, Ed. M., Res. Asst. in
Food Technol.

†R. O. Sinnhuber, M. S., Assoc. Biochem.,
Sea Foods Lab.

†Curtis Wilder, M. S., Asst. Food Technol.

*†O. J. Worthington, Ph. D., Assoc. Prof. and
Assoc. Food Technol.

†Ho-Ya Yang, Ph. D., Assoc. Food Technol.

Home Economics:

ome Economics:

*Mrs. Vera H. Brandon, Ph. D., Actg. Dean of School.

*May DuBois, M. S., Prof. and Head Dept. of Home Econ. Ed.

*Margaret L. Fincke, Ph. D., Prof. and Head Dept. of Foods and Nutr.

*Mrs. Sara W. Prentiss, M. A., Prof. and Head Dept. of Household Admin.

*Gertrude Strickland, B. S., Prof. and Head of Clothing, Textiles, and Related Arts.

†Mrs. Maurine Blackwell, M. S., Res. Asst.

*Mrs. Vivian Brashear, M. S., Asst. Prof. Household Admin.

‡John Campbell, M. S., Ext. Spec. Rural Housing.

Housing.

*Helen G. Charley, M. S., Asst. Prof. Foods and Nutr.

*Mrs. Gretchen S. Clark, B. S., Instr. House-

hold Admin. *Laura Cleaveland, M. S., Asst. Prof. Institutional Econ.

*Laura Cleaveland, M. S., Asst. Proj. Institutional Econ.

†Mrs. Myrtle Carter, M. S., Ext. Spec. Home Furnishings.

‡Frances Clinton, M. S., Assoc. Prof. Clothing, Textiles, and Related Arts.

†Mrs. Rachel Dube, M. S., Res. Asst. in Nutr.

†Mrs. Clara W. Edaburn, M. S., Assoc. Prof. Clothing, Textiles, and Related Arts.

‡Edith J. Freeman, Ph. D., Ext. Spec. Sociol.

*E. Alta Garrison, M. A., Asst. Prof. Foods and Nutr.

*Dorothy Gatton, M. S., Prof. Clothing, Textiles, and Related Arts.

*Phyllis Grant, M. S., Instr. Clothing, Textiles, and Related Arts.

*Demetrios Hadjimarkos, D. D. S., M. P. H., Assoc. Prof. Foods and Nutr.

*Betty Hawthorne, M. S., Asst. Prof. Foods and Nutr.

*Helen L. Hollandsworth, M. S., Instr. Home Econ. Ed.

*Mrs. Mildred B. Hunter. Ph. D., Asst. Prof.

*Mrs. Mildred B. Hunter, Ph. D., Asst. Prof. Foods and Nutr.

*Mrs. Jean James, B. S., Instr. Clothing, Textiles, and Related Arts.

*L. A. Kirkendall, Ph. D., Assoc. Prof. Household Admin.

*Agnes M. Kolshorn, M. A., Ext. Spec. Nutr.

*Paula Kurtz, B. S., Instr. Household Admin.

**tLucy R. Lane, M. A., Ext. Spec. Clothing.

*Marie Ledbetter, M. S., Asst. Prof. Clothing, Textiles, and Related Arts.

*Hellin Louhi, B. S., Res. Asst. in Nutr.

*Mrs. Miriam D. Ludwig, B. A., Instr.

Hellin Louhid Admin

Household Admin.

Mrs. Mabel C. Mack. M. S., State Ext. Agt.

†Jessalee Mallalieu, M. S., Ext. Spec. Recreation.

*Isabella McQuesten, M. S., Assoc. Prof. Home Econ. Ed. ‡Mary B. Minden, M. A., Ext. Spec. Home Mgt.

*Mrs. Ethel Morgan, B. S., Instr. Foods and

Nutr. *Ruth Moser, M. S., Asst. Prof. Clothing, Textiles, and Related Arts.

Home Economics-Continued

**Helen Mulhern, M. S., Asst. Prof. and Actg.

*Helen Mulhern, M. S., Asst. Prof. and Actg.

*†Andrea J. Overman, Ph. D., Assoc. Prof.
and Asst. Home Econ. Res.

*†Joan Patterson, M. F. A., Assoc. Prof.
Clothing, Textiles, and Related Arts.

*Elna C. Petersen, M. S., Asst. Prof. Foods
and Nutr.

*\$Mrs. Julianne W. Phinney, M. S., Asst.
Prof. Household Admin.

*Mrs. Katherine H. Read, M. S., Prof.
Household Admin. and Dir. Nursery
Schools.

Housenota Aamin. and Dir. Nursery Schools.

‡Mrs. Azalea L. Sager, M. A., State Leader Home Econ. Ext.

‡Murle Scales, M. S., Ext. Spec. Clothing.

*Mrs. Laura B. Smith, M. A., Asst. Prof. Clothing, Textiles, and Related Arts.

*Mrs. Natalie N. Smith, B. A., Instr. House-bold Admin.

hold Admin. *†Clara A. Storvick, Ph. D., Prof. Foods and

and Nutr. *Mrs. Evelyn Warren, M. S., Instr. Foods

*Mrs. Evelyn Warren, M. S., Instr. Foods and Nutr.

*Virginia Weiser, M. S., Instr. Foods and Nutr.

*Mrs. Vera Wells, B. S., Instr. Clothing, Textiles, and Related Arts.

*Miriam A. Wiggenhorn, M. A., Assoc. Prof. Household Admin.

*Mrs. Kathryn Young, B. S., Instr. Institutional Feon tutional Econ. †Mei-ling Wu, M. S., Res. Asst. in Nutr.

Horticulture:

*†Henry Hartman, M. S., Prof. and Head of Dept.

*†S. B. Apple, M. S., Assoc. Prof. and Assoc.

*TS. B. Apple, M. S., Assoc. Froj. and Assoc. Hort.

*†L. T. Blaney, M. S., Instr. and Res. Asst. in Hort.

†C. A. Boller, M. S., Asst. Hort.

‡R. R. Clark, M. S., Est. Hort. Spec.

†O. C. Compton, Ph. D., Assoc. Hort.

*W. P. Duruz, Ph. D., Proj. Prof. and Hort.

†L. A. Hammers, M. S., Res. Asst. in Hort.

†L. Hammers, M. S., Res. Asst. in Hort.

†L. Hammers, M. S., Hort. (Coop. U. S. D. A.).

†C. O. Rawlings, M. S., Est. Hort. Spec.

†A. N. Roberts, M. S., Assoc. Hort.

†S. E. Wadsworth, B. S., Assoc. Proj. and Assoc. Hort. (Flor.).

†G. F. Waddo, M. S., Hort. (Coop. U. S. D. A.).

†G. F. Waldo, M. S., Hort. (Coop. U. S. D. A.).
*†Q. B. Zielinski, Ph. D., Assoc. Prof. and Assoc. Hort.

Journalism:

*†‡D. M. Goode, M. A., Dir. of Pubs. (Coop. U. S. D. A.).
† ||S. H. Bailey, M. S., Sta. Editor.
*†J. C. Burtner, B. S., Dir. News Bureau.
‡R. G. Fowler, Jr., B. S., Ext. Information

Spec. *†N. R. Gish, B. S., Instr. and Asst. Sta.

*TN. R. Gish, B. S., Instr. and Asst. Ste. Editor.

*J. K. Munford, Ed. D., Assoc. Prof. and Assoc. Editor of Pubs.

*R. W. Salisbury, B. S., Instr. and Asst. to Editor of Pubs.

\$\tau\$Carolyn Shaver, B. S., Ext. Information

Spec.

Poultry Husbandry:

*†J. E. Parker, Ph. D., Prof. and Head of Dept,

Poultry Husbandry—Continued

†N. L. Bennion, M. S., Ext. Poultry Spec.

†P. E. Bernier, Ph. D., Assoc. Prof. and
Assoc. Poultry Husb.

†W. T. Cooney, M. S., Assoc. Prof. and Assoc. Poultry Husb.

†J. A. Harper, M. S., Asst. Prof. and Asst.
Poultry Husb. (Coop. U. S. D. A.).

Soils:

*†W. L. Powers, Ph. D., Prof. and Head of

TW. L. Powers, Ph. D., 170j. tha Head of Dept. *E. V. Dannen, B. S., Asst. Prof. Soil Sci. †E. W. Dull, B. S., Res. Asst. in Soils. †M. A. Hagood, B. S., Ext. Irrig. Spec. †A. S. Hunter, Ph. D., Soil Sci. (Coop. U. S.

†A. S. Hunter, Ph. D., Sou Sci. (Coop. C. S. D. A.).

†A. S. King, M. S., Ext. Soil Conserv. Spec.

†A. W. Marsh, Ph. D., Assoc. Prof. and

Assoc. Soil Sci.

†R. A. Péndleton, Ph. D., Ayron. (Coop.

U. S. D. A.).

†C. V. Ruzek, M. S., Prof. Soil Fert.; Soil

Sci. (Fert.)

†R. E. Stephenson, Ph. D., Prof. Soils; Soil

*§E. F. Torgerson, B. S., Assoc. Prof. ‡L. E. Warner, B. S., Ext. Soil Conserv. Spec.

Veterinary Medicine:

*†J. N. Shaw, B. S., D. V. M., Prof. and Head of Dept.
†W. E. Babcock, B. S., D. V. M., Res. Asst. in Vet. Med.
†J. F. Bone, D. V. M., Res. Asst.
†E. M. Dickinson, M. S., D. V. M., Prof. Vet.

*†E. M. Dickinson, M. S., D. V. M., Proj. vet. Med.; Vet.
†H. B. Keith, D. V. M., Livestock Insp. (Coop. U. S. D. I.).
†O. H. Muth, M. S., D. V. M., Vet.
*†J. O. Schnautz, M. S., D. V. M., Assoc. Prof. and Assoc. Vet.
*†J. F. Sullivan, D. V. M., Instr. and Res. Asst. in Vet. Med.
†J. L. Weibel, B. S., Res. Asst.

Miscellaneous:

tA. C. Ebert, B. S., Ext. Radio Spec.

*W. M. Langan, B. S., Asst. Prof., Agr. Student Personnel Advisor.

tJ. C. Moore, M. S, Ext. Conserv. Spec.

tW. C. Reid, Ph. D., Ext. Visual Instr. Spec.

tC. R. Ross, M. S. F., Ext. Farm For. Spec.

Branch Stations and Experimental Areas:

Deschutes Experimental Project, P. O., Redmond

M. J. Johnson, M. S., Project Supvr. J. A. Currie, B. S., Res. Asst. Eastern Oreg. Livestock Branch Expt. Sta.. P. O., Union— H. G. Avery, B. S., Supt. (Coop. U. S.

D. A.).
C. D. Pierce, B. S., Res. Asst.
Hood River Branch Expt. Sta., P. O., Hood

River

Haver—Leroy Childs, A. B., Supt. and Ent. G. G. Brown, B. S., Hort.
J. R. Kienholz, Ph. D., Path. (Coop. U. S. D. A.)
W. H. Meyle, B. S., Res. Asst.
V. W. Olney, B. S., Res. Asst.
John Jacob Astor Branch Expt. Sta., P. O.,

John Jacob Astor Branch Expt. Sta., P. O.,
Astoria—
H. B. Howell, B. S., Supt.
W. E. Dent, M. S., Asst. Supt.
Klamath Experimental Area, P. O., Klamath Fulls—
A. E. Gross, M. S., Supt.
A. R. Halvorson, Ph. D., Asst. Supt. in
charge Soils Res.
Malheur Experimental Area, P. O., On-

Experimental Area, P. O., On-Malheur

alheur Experimental Area, P. O., Ontario—
E. N. Hoffman, B. S., Supt.
Fred Tileston, B. S., Assoc. Irrig. Engin.
(Coop. U. S. D. A.).
J. A. Yungen, B. S., Res, Asst. (Coop.
U. S. D. A.).

Branch Stations and Experimental Areas-Con. Milton-Freewater Expt. Area, P. O., Hermiston-

C. A. Larson, Ph. D., Supt. E. E. Brown, B. S., Res. Asst. Pendleton Branch Expt. Sta., P. O., Pen-

M. M. Oveson, M. S., Supt. (Coop. U. S.

M. M. Oveson, M. S., Supt. (Coop. U. S. D. A.).

Theodore Horning, Agr. Engin. (Coop. U. S. D. A.).
C. H. Ramage, B. S., Res. Asst. (Coop. U. S. D. A.).
Red Hill Soils Experimental Area, P. O., Oregon City—
J. T. McDermid, B. S., Supt.
Sherman Branch Expt. Sta., P. O., Moro—
G. A. Mitchell, B. S., Supt. (Coop. U. S. D. A.).

G. A. Mitchen, B. S., Z., D. A.).

W. E. Hall, B. S., Res. Asst.
Southern Oreg. Branch Expt. Sta., P. O., Medford, R. 4—

E. S. Degman, Ph. D., Supt. and Pomol. (Coop. U. S. D. A.).

R. T. Beaumont, B. S., Res. Asst. Irrig. Water Forecasting.

W. T. Frost, A. B., Hydraulic Engin., Irrig. Water Forecasting (Coop. U. S. D. A.).

Branch Stations and Experimental Areas-Con. Southern Oreg. Branch Expt. Sta., P. O. Medford, R. 4—Continued

L. G. Gentner, M. S., Asst. Supt. and

L. G. Gentner, M. S., Asst. Supt. and

Ent.
H. H. White, M. S., Assoc. Agron.
R. A. Work, B. S., Project Supvr., Irrig.
Water Forecasting (Coop. U. S. D. A.).
Squaw Butte-Harney Coop. Range and
Livestock Sta., P. O., Burns—
W. A. Sawyer, B. S., Supt. (Coop. U. S.
D. I.).
F. E. Hubbert, M. S., Res. Asst.
D. N. Hyder, M. S., Range Conserv.
(Coop. U. S. D. I.).
Elmer Sniff, B. S., Asst. Range Conserv.
(Coop. U. S. D. I.).
The Dalles Experimental Area, P. O., The
Dalles—

Dalles-

H. J. O'Reilly, M. S., Supt. F. E. Ellertson, B. A., Res. Asst. Umatilla Branch Expt. Sta., P. O., Hermis-

ton—
C. A. Larson, Ph. D., Supt. (Coop. U. S. D. A.).
D. S. Black, B. S., Res. Asst.
P. Davidson, B. S., Res. Asst.
D. H. Sherwood, M. S., Asst. Poultry Husb.

PENNSYLVANIA

Schools of Agriculture and Home Economics and the Agricultural Experiment Station of The Pennsylvania State College, State College

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence. ||Military leave.

*M. S. Eisenhower, LL. D., L. H. D., D. Sc., President.
*L. E. Jackson, Ph. D., Dean School of Agr.

†F. F. Lininger, Ph. D., Vice-Dean and Dir. of Sta.

‡J. M. Fry, B. S., Vice-Dean and Dir. of Agr. Ext.

†R. B. Dickerson, Ph. D., Vice-Dean and Dir. of Resident Instr.

†M. A. Farrell, Ph. D., Asst. Dir. of Sta.

†A. L. Beam, M. S., Asst. Dir. Resident Instr.; Dir. of Short Courses.

†S. K. Hostetter, Treas.

Agronomy:

*†H. R. Albrecht, Ph. D., Head of Dept. *†R. B. Alderfer, Ph. D., Assoc. Prof. Soil Technol.

*Technol.

*†F. G. Bamer, B. S., Prof. Agron. Ext.

*†G. H. Berggren, B. S., Asst. Prof. Agron.

Ext.

*†C. S. Bryner, B. S., Instr. Agron.

*†H. L. Carnahan, Ph. D., Asst. Prof. Agron.

*†J. S. Cobb, M. S., Assoc. Prof. Agron.

*†A. E. Cooper, B. S., Assoc. Prof. Agron.

Ext.

*‡J. H. Eakin, Jr., M. S., Asst. Prof. Agron.

*†H. R. Fortmann, Ph. D., Asst. Prof. Agron. *†H. W. Higbee, M. S., Assoc. Prof. Soil

*†H. K. Fortmann, Ph. D., Asst. Prof. Agron.
*†H. W. Higbee, M. S., Assoc. Prof. Soil Technol.

*†F. J. Holben, M. S., Asst. Prof. Soil Technol.

*†L. L. Huber, Ph. D., Prof. Agron.

*†C. D. Jeffries, Ph. D., Prof. Soil Technol.

*†F. G. Merkle, Ph. D., Prof. Soil Technol.

*†H. B. Musser, B. S., Prof. Agron.

*†R. P. Pennington, Ph. D., Asst. Prof. Soil Technol.

*‡E. C. Pifer, M. S., Asst. Prof. Agron. Ext.

*†S. M. Raleigh, Ph. D., Assoc. Prof. Soil Technol.

*†B. L. Seem, M. S., Asst. Prof. Agron.

*†B. L. Seem, M. S., Asst. Prof. Agron.

*†J. E. Steckel, Ph. D., Assoc. Prof. Soil Technol.

nol. *†J. B. Washko, Ph. D., Assoc. Prof. Agron.

Animal Husbandry:

*†F. L. Bentley, M. S., Head of Dept. *†A. L. Bortree, D. V. M., Prof. Vet. Sci. *†C. A. Burge, M. S., Prof. An. Husb. Ext. *†J. A. Christian, M. S., Asst. Prof. An. Husb. Ext.

Animal Husbandry—Continued

*‡W. B. Connell, M. S., Prof. An. Husb. Ext. (Sheep).

*†Mrs. Patsy D. Danner, M. A., Asst. An.

*†Mrs. Patsy D. Danner, M. A., Asst. An. Path. Res.

*†P. J. Glantz, M. S., Instr. An. Path. Res.

*†J. L. Gobble, M. S., Instr. An. Husb.

*†Stephen Gordeuk, Jr., M. S., D. V. M., Assoc. Prof. An. Path. Res.

*†W. L. Henning, Ph. D., Prof. An. Husb. (Sheep).

*†G. R. Kean, M. S., Instr. An Husb. Ext. (Swine).

*‡L. C. Madison, B. S., Froj. an Hago. Lac. (Swine).

*†D. M. Peoples, B. S., Asst. An. Path. Res.

*†C. S. Shaffner, Asst. in An. Husb.

*†G. W. Sherritt, M. S., Instr. An. Husb.

*†J. C. Shook, V. M. D., Instr. Vet. Sci.

*†E. A. Taft, Asst. in An. Husb.

*†P. T. Ziegler, M. S., Prof. An Husb.

Animal Nutrition:

Animal Nutrition:

*†R. W. Swift, Ph. D., Head of Dept.

*†G. P. Barron, Jr., M. S., Instr. An. Nutr.

*†Alex Black, Ph. D., Prof. An. Nutr.

*†J. W. Bratzler, Ph. D., Assoc. Prof. An. Nutr.

*†R. L. Cowan, M. S., Instr. An. Nutr.

*†C. Er French, Ph. D., Assoc. Prof. An. Nutr.

*†C. Grose, M. S., Instr. An. Nutr.

*†E. C. Grose, M. S., Instr. An. Nutr.

*†R. H. Ingram, M. N. S., Instr. An. Nutr.

*†R. H. Ingram, M. N. S., Instr. An. Nutr.

*†R. W. Stone, Ph. D., Head of Dept. *†J. V. Beck, Ph. D., Assoc. Prof. Bact. *†Eunice G. Berry, B. A., M. T., Asst. in Ract

*†Eleanor S. Bly, M. S., Asst. in Bact.

Bacteriology-Continued

*†J. F. Cone, Ph. D., Assoc. Prof. Bact.
*†C. D. Cox, Ph. D., Assoc. Prof. Bact.
*†J. C. Garey, Ph. D., Prof. Bact.
*†Heien L. Kinsloe, M. S., Instr. Bact.
*†J. J. Reld, Ph. D., Prof. Bact.

Botany:

*†H. W. Popp, Ph. D., Head of Dept.

*†A. H. Bauer, M. S., Asst. Prof. Plant
Path. Ext.

*†W. S. Beach, Ph. D., Prof. Plant Path. Res.

*†J. S. Boyle, Ph. D., Asst. Prof. Plant Path.

*†O. D. Burke, Ph. D., Prof. Plant Path. Ext.

*†W. A. Chandler, M. S., Asst. in Plant Path.

*†C. L. Fergus, Ph. D., Asst. Prof. Bot.

*†C. L. Fergus, Ph. D., Asst. Prof. Bot.

*†A. R. Grove, Jr., Ph. D., Assoc. Prof.
Bot.

*†C. *†A. Bot.

*†Julia M. Haber, Ph. D., Asst. Prof. Bot. *‡E. A. Honey, Ph. D., Prof. Plant Path.

*IE. A. Honey, 2...

Ext.

*†R. S. Kirby, Ph. D., Prof. Plant Path. Ext.

*†L. R. Kneebone, Ph. D., Asst. Prof. Bot.

*†A. J. Kovar, Ph. D., Instr. Bot. (P. O.,

*†L. K. K. Kovar, Ph. L.,

*†A. J. Kovar, Ph. L.,

Mont Atto).

*†D. A. Kribs, Ph. D., Prof. Bot.

*†F. H. Lewis, Ph. D., Assoc. Prof. Plant

Path. (P. O., Arendtsville).

*†W. R. Mills, Ph. D., Assoc. Prof. Plant

Path.

*‡L. P. Nichols, M. S., Asst. Prof. Plant

Path. Ext.

Ph. D., Asst. Prof. Plant

*†J. W. Sinden, Ph. D., Prof. Bot. *†H. W. Thurston, Jr., Ph. D., Prof. Plant . W. Thurston, ...,
Path.
... W. VanNorman, Ph. D., Asst. Prof.

*†H. A. Wahl, Ph. D., Prof. Bot. *†C. C. Wernham, Ph. D., Assoc. Prof. Plant Path*†J. E. Wright, B. S., Asst. Prof. Genetics.

Chemistry (Agr. and Biol.):

*†R. A. Dutcher, M. S., D. Sc., Head of Dept.

*†P. M. Althouse, Ph. D., Assoc. Prof. Agr.
and Biol. Chem.

*†A. Chem. K. Anderson, Ph. D., Prof. Physiol.

*†R. V. Boucher, Ph. D., Prof. Agr. and Biol. Chem.
*†D. E. H. Frear, Ph. D., Prof. Agr. and Biol.

*†D. E. H. Frear, Ph. D., Prof. Agr. and Biol. Chem.

*†N. B. Guerrant, Ph. D., Prof. Biol. Chem.

*†A. L. Haskins, M. S., Asst. Prof. Agr. and Biol. Chem.

††C. O. Jensen, Ph. D., Prof. Phytochem.

*†M. W. Lisse, Ph. D., Prof. Biophys. Chem.

*†Sarah B. McGrew, B. S., Instr. Agr. and Biol. Chem.

*†R. C. Miller, Ph. D., Prof. Agr. and Biol. Chem.

*†J. W. Shigley, Ph. D., Instr. Agr. and Biol.

Chem.
*†H. O. Triebold, Ph. D., Prof. Agr. and Biol. Chem.

Dairy Husbandry:

*†D. V. Josephson, Ph. D., Head of Dept. *†J. O. Almquist, Ph. D., Assoc. Prof. Dairy Husb.

*†A. L. Beam, M. S., Prof. Dairy Prod.

*†C. D. Dahle, Ph. D., Prof. Dairy Mfrs.

*†W. R. Davey, B. S., Instr. Dairy Husb.

*†M. L. Dawdy, M. S., Instr. Dairy Husb.

*†F. J. Donn, M. S., Prof. Dairy Mfrs.

*†R. J. Flipse, M. S., Asst. Prof. Dairy Husb.

*tC R. Gearhart, B. S., Prof. Dairy Husb. Ext. *tH. C. Gilmore, B. S., Asst. Prof. Dairy

*tH. C. Ginner,
Husb. Ext.
*tC. N. Hall, M. S., Assoc. Prof. Dairy Husb.

Ext.
Acct in Dairy Husb.

*†P. D. Jones, Asst. in Dairy Husb.

Dairy Husbandry-Continued

*†E. M. Kesler, M. S., Instr. Dairy Husb. *†C. B. Knodt, Ph. D., Prof. Dairy Prod. *†H. J. Merrill, B. S., Instr. Dairy Husb. *†J. C. Nageotte, B. S., Prof. Dairy Husb.

** Ext. ** IR. Olmstead. M. S., Prof. Dairy Husb. Ext.

*‡I. E. Parkin, B. S., Prof. Dairy Husb. Ext. *†Stuart Patton, Ph. D., Asst. Prof. Dairy

M/rs.

*†P. W. Prince, M. S., Instr. Dairy Husb.

*‡H. E. Shaffer, M. S., Instr. Dairy Husb.

*†W. D. Swope, M. S., Prof. Dairy Husb.

†T. Y. Tanabe, Ph. D., Asst. Prof. Dairy

*†J. S. Taylor, M. S., Prof. Dairy Husb. Ext. *†G. H. Watrous, Jr., M. S., Instr. Dairy

Mfrs. *‡J. H. Wheeler, B. S., Instr. Dairy Husb.

Ext. *†P. S. Williams, M. S., Prof. Dairy Husb.

Economics (Agr.) and Rural Sociology:

*†M. E. John, Ph. D., Head of Dept. *†M. J. Armes, B. S., Prof. Farm Mgt. Ext. *†W. L. Barr, M. S., Assoc. Prof. Farm

 ${}^*\dagger_{\text{C. A}}\overset{\text{L.}}{{}^{Mgt.}}$ Becker, Ph. D., Prof. Agr. Business

*†A. K. Birth, Instr. Agr. Econ. Ext. *†S. W. Blizzard, Ph. D., Assoc. Prof. Rural

Sociol.

*†G. E. Brandow, Ph. D., Prof. Agr. Econ.
*†§E. J. Brown, B. S., Instr. Rural Sociol.
*†R. C. Buck, M. S., Asst. Prof. Rural Sociol.
*†W. W. Cochrane, Ph. D., Prof. Agr. Econ.
*†F. L. Corty, M. S., Instr. Agr. Econ.
*‡R. B. Donaldson, M. S., Prof. Agr. Econ.

Ext*‡John Gauss, B. S., Assoc. Prof. Agr. Econ.

*‡W. R. Gordon, B. S., Prof. Rural Sociol.

*†C. V. Hess, M. S., Asst. Prof. Agr. Econ. *tKenneth Hood, Ph. D., Prof. Agr. Econ.

*‡H. F. McFeely, B. S., Assoc. Prof. Agr. Econ. Ext.

*†L. F. Miller, Ph. D., Prof. Farm Mgt.

*‡E. L. Moffitt, M. S., Prof. Farm Mgt. Ext.

*†J. K. Pasto, Ph. D., Asst. Prof. Farm Mgt.

*†J. K. Pierce, Ph. D., Prof. Agr. Econ. Ext.

*†L. N. Reist, M. S., Prof. Agr. Econ. Ext.

*†J. K. Stern, M. S., Prof. Agr. Econ. Ext.

*†J. K. Stern, M. S., Prof. Agr. Coop.

*†H. N. Reist, M. S., Prof. Agr. Coop.

*†J. E. Trotter, B. S., Instr. Agr. Econ.

*†H. B. White, Jr., B. S., Asst. Prof. Rural Sociol. Ext.

*†Mrs. Anna T. Wink, M. S., Res. Asst. in

*†Mrs. Anna T. Wink, M. S., Res. Asst. in Agr. Econ. *†P. I. Wrigley, M. S., Asst. Prof. Agr. Econ.

Editorial:

*‡E. H. Rohrbeck, M. S., Prof. Ext. and Agr.

*In M. Eberly, A. B., Asst. Prof. Agr. Ext. *IR. M. Eberly, A. B., Asst. Prof. Agr. Ext. *IF. P. Ferguson, B. S., Assoc. Prof. Agr. Journalism.

*†A. H. Imhof, Asst. in Agr. Journalism.

*‡G. F. Johnson, Ph. D., Prof. Agr. Ext.

*‡M. R. Lynch, B. S., Instr. Agr. Ext.

*‡Alice M. Murray, B. S., Asst. Prof. Home

Econ. Ext.

*†Jean L. Niesley, B. S., Instr. Home Econ.

Ext. * E. B. Tait, B. S., Asst. Prof. Agr. Ext.

Education (Agr.):

*†H. S. Brunner, Ph. D., Head of Dept. *†C. S. Anderson, Ph. D., Prof. Agr. Ed. *†W. F. Hall, Ph. D., Prof. Agr. Ed.

Education (Agr.)-Continued

*†N. K. Hoover, M. S., Instr. Agr. Ed. *†D. R. McClay, M. S., Asst. Prof. Agr. Ed. *†G. Z. Stevens, M. S., Asst. Prof. Agr. Ed.

Engineering (Agr.):

*†R. U. Blasingame, B. S., Head of Dept.

*‡C. H. Bingham, B. S., B. A. E., Asst. Prof. Agr. Engin. Ext.

*‡ || C. G. Burress, M. S., Prof. Agr. Engin. Ext.

*†A. W. Clyde, M. S., Prof. Agr. Engin.

*‡J. A. McCurdy, B. S., Instr. Agr. Engin.

Ext.

*†A. S. Mowery, M. S., Asst. Prof. Agr. Engin.
*†J. E. Nicholas, M. E., M. S., Prof. Agr. Engin.
*†E. F. Olver, M. S., Asst. Prof. Agr. Engin.
*†E. F. Olver, M. S., Asst. Prof. Agr. Engin.
*†J. S. Perry, B. S., Instr. Agr. Engin.
*†J. S. Perry, B. S., Instr. Agr. Engin.
*†J. R. Wakefield, B. S., Instr. Agr. Engin.
*†H. R. Wakefield, B. S., Instr. Agr. Engin.
*†H. V. Walton, M. S., Instr. Agr. Engin.
*†H. V. Walton, M. S., Instr. Agr. Engin.
*†H. V. Walton, M. S., Instr. Agr. Engin.
*†N. H. Wooding, Jr., B. S., Asst. Prof. Agr. Engin. Ext.

Engin. Ext.

Entomology-See Zoology.

Extension Administration:

*‡J. M. Fry, B. S., Dir. *‡R. C. Blaney, B. S., Asst. Dir. and Prof. Agr. Ext. *‡P. L. Edinger, M. S., Asst. Dir. and Prof.

*Th. E. Eddinger, M. S., Asst. Du. and Prof. Agr. Ext.

*†H. R. McCulloch, M. S., Asst. Dir. and Prof. Agr. Ext.

*†T. H. Patton, B. S., Asst. Dir. and Prof. Agr. Ext.

*A. L. Baker, M. S., Prof. Agr. Ext. and State Club Leader.

*‡Lydia Tarrant, M. S., Prof. Home Econ.

Ext. Tarrant, M. S., Prof. Home Even.

Ext.

**Rosalind M. Jewett, B. S., Prof. Home
Econ. Ext.

**Tabel E. Satterthwaite, B. S., Assoc. Prof.
Home Econ. Ext.

**Doris A. Anders, B. S., Assoc. Prof. Home
Econ. Ext.

**W. L. Haldeman, B. S., Instr. Agr. Ext.

**W. L. Haldeman, B. S., Instr. Agr. Ext.

**W. S. Jeffries, M. S., Assoc. Prof. Agr. Ext.

**W. L. Jeffries, M. S., Assoc. Prof. Agr. Ext.

**U. J. F. Keim, M. S., Assoc. Prof. Agr. Ext.

**I. J. F. Keim, M. S., Assoc. Prof. Agr. Ext.

**E. A. Mintmier, B. S., Prof. Agr. Ext.

**I. I. Moon, B. S., Asst. Prof. Agr. Ext.

**II. I sabel Myers, B. S., Assoc. Prof. Home
Econ. Ext.

**Lois J. Smith, B. S., Instr. Home Econ. Ext.

**Rita L. Sullivan, B. S., Instr. Home Econ.
Ext.

**TRita Unrheat B. S. Assoc. Prof. Home

Ext. *;Elsie Trabert, B. S., Assoc. Prof. Home

Econ. Ext.

Farm Operations and Service:

*J. K. Thornton, M. S., Supt., and Assoc. Prof. Farm Crops.
*J. B. Kistler, Asst. Supt.

Forestry:

*†V. A. Beede, B. A., M. F., Head of Dept. *†R. A. Bartoo, B. S., M. F., Instr. For. *†W. C. Bramble, M. F., Ph. D., Prof. For. *†H. H. Chisman, B. S., M. F., Assoc. Prof.

*†H. H. Chisman, B. S., ——
For.

*†H. N. Cope. B. S., Prof. For.

*†M. K. Goddard, M. S., Prof. For. (P. O., Mont Alto).

*†M. W. Humphrey, B. A., M. F., Prof. For.

*†R. N. Jorgensen, B. S., M. F., Instr. Wood Technol.

**D. E. Melton, M. S., Instr. For. (P. O.,

*†R. E. Melton, M. S., Inc...

*†H. A. Meyer, Dr. Sc. Tech., Prof. For.

*†W. T. Nearn, M. S., Instr. Wood Utilization.

*†N. A. Norton, M. F., Ph. D., Prof. Wood Utilization.

**IN A. Norton, M. F., Ph. D., Prof. For.

Forestry-Continued

**roctry—Continued

**fo. W. Pflueger, B. S., M. F., Prof. For.
(P. O., Mont Alto).

**fo. A. Schmidt, B. S., Asst. Prof.

**tW. W. Simonds, B. S., M. F., Prof. For. Ext.

**tW. W. Ward, B. S., Instr. For.

**fb. M. Witherow, M. F., Instr. For.

**tW. E. White, Ph. D., Prof. Wood Technol.

**†D. P. Worley, M. F., Instr. For.

Home Economics:

*Grace M. Henderson, Ph. D., Dean of

School.

*Helen R. LeBaron, Ph. D., Asst. Dean and Prof. Home-Community Relationships.

*Delpha E. Wiesendanger, M. S., Asst. Dean and Assoc. Prof. Home Mgt. and Hous-

ing.
*Mary B. Allgood, M. S., Assoc. Prof. Home
Equip. and Commercial Consumer Serv-

Equip. and Commercial Consum.

*Jean D. Amberson, Ph. D., Prof. Home Econ. Ed.

*Esther A. Atkinson, M. S., Assoc. Prof. Hotel and Institution Admin.

*Della J. Avery, M. S., Assoc. Prof. Child Development and Family Relationships.

*Mrs. Mabel B. Barton, B. S., Asst. Prof. Clothing Ext.

*Grace Bennett, M. S., Asst. Prof. Foods and Nutr.

*Margery L. Bessom, M. A., Asst. Prof. *#Mrs.

*tMargery L. Bessom, M. A., Asst. Prof. Clothing Ext.

*tSanna D. Black, M. S., Asst. Prof. Home Mgt. Ext.

*Lucille B. Bolling, M. S., Instr. Foods and

Nutr.
*Jane A. Bovie, M. S., Asst. Prof. Child
Development and Family Relationships.
*R. M. Bower, B. A., Asst. Prof. Hotel Ad-

min.
*E. Madeline Burleigh, M. S., Asst. Prof.
Hotel and Institution Admin.
*Lilla F. Cortright, M. S., Instr. Home-Com-

munity Relationships.
*Betty C. Delavan, M. A., Instr. Clothing and Textiles.
*Many L. Dodds, Ph. D., Prof. Foods and

*Mary L. Evoluty, Nutr. *†Emma H. Eastman, B. S., Asst. Prof. Home Mgt. Ext. *Katherine H. Fisher, M. S., Instr. Foods

and Nutr.
*P. B. Flick, M. Ed., Instr. Home Art.
*Ruth E. Graham, M. S., Prof. Clothing and

Textiles. *Helen A. Guthrie, M. S., Instr. Foods and

Nutr. *Hazel M.

*Hazel M. Hatcher, Ph. D., Prof. Home Econ. Ed. and Home-Community Rela-tionships. *Frances S. Henderson, M. S., Instr. Home Mgt.

*‡Lavonia Hilbert, M. A., Assoc. Prof. Cloth-

Mgt.

**;Lavonia Hilbert, M. A., Assoc. Prof. Clothing Ext.

*Ruth R. Honey, Ph. D., Assoc. Prof. Family Econ. and Housing.

*Marguerite E. Horn, M. S., Asst. Prof. Hotel and Institution Admin.

*Marjorle K. Horton, M. S., Instr. Hotel and Institution Admin.

*;Marguerite E. Johnson, M. S., Asst. Prof. Nutr. Ext.

*Tatiana Levcowich, M. S., Assoc. Prof. Foods and Nutr.

*;Marguerite F. Little, M. A., Assoc. Prof. Child Development and Family Life Ext.

*Mary C. Lower, B. S., Instr. Home Art.

*G. Alma McDougall, M. S., Asst. Prof. Hotel and Institution Admin.

*Elizabeth McDowell, M. A., Asst. Prof. Child Development.

*Mrs. Marion S. McDowell, M. A., Assoc. Prof. Family Relationships.

*Miriam E. McGrew, M. A., Asst. Prof. Home Art.

*Winona L. Morgan, Ph. D. Prof. Child Development and Family Relationships.

Home Economics-Continued

*Lois E. Nelson, M. S., Instr. Clothing and

Textiles.

*Francena L. Nolan, M. S., Instr. Housing.

*Gilma M. Olson, M. S., Assoc. Prof. Foods and Nutr.

*Ina M. Padgett, M. S., Prof. Foods and Nutr.

Nutr.
*Ruth L. Pike, Ph. D., Assoc. Prof. Foods
and Nutr.
*L. Jeanne Riebel, M. S., Home Mgt. and

Home Equip.

*Margaret E. Riegel, M. S., Assoc. Prof.
Home Econ. Ed.

*tMary K. Rissinger, M. S., Asst. Prof. Nutr.

Ext. Assinger, M. S., Asse. 1707. Part.
Ext. *Jessie M. Rossman, Ed. D., Assoc. Prof.
Home Econ. Ed.
*§Christine F. Salmon, M. Arch., Asst. Prof.

*W. M. Smith, Jr., Ph. D., Prof. Family Relationships.

*Muriel E. Starr, M. S., Asst. Prof. Home Mgt.

*Myrtle E. Swanson, M. A., Assoc. Prof.

*Myrtie E. Swallson, M. A., Assoc. 1707.
Foods and Nutr.
*M. Elizabeth Westgate, M. A., Assoc. Prof.
Olothing and Teatiles.
*Beth K. Wham, M. S., Instr. Home Art.
*Margaret H. Zook, Ph. D., Assoc. Prof.
Clothing and Textiles.

Horticulture:

*†W. B. Mack, Ph. D., Head of Dept. *†J. R. Bracken, Ph. D., Prof. Landsc. Hort. *‡C. S. Bittner, M. S., Assoc. Prof. Pomol. Ext.

*†W. S. Clarke, Jr., M. S., Asst. Prof. Pomol. *†Marguerite Desaulniers, B. S., Res. Asst. Plant Nutr.

Plant Nutr.

**J. O. Dutt, B. S., Prof. Veg. Gard. Ext.

*†H. K. Fleming, M. S., Assoc. Prof. Pomol.
(P. O., North East).

*†R. F. Fletcher, B. S., Instr. Veg. Gard. Ext.

*†F. N. Hewetson, M. S., Assoc. Prof. Pomol.
(P. O., Arendtsville).

*†W. C. Kennard, M. S., Instr. Pomol.

*†R. E. Larson, Ph. D., Prof. Plant Brdg.

*†M. T. Lewis, M. S., Prof. Plant Brdg.

*†L. D. Little, Jr., M. S., Instr. Ornamental
Hort.

*†R. P. Meahl, M. S. Prof. Ornamental Hort.

*†R. P. Meahl, M. S., Prof. Ornamental Hort.

*†J. L. Mecartney, B. S., Assoc. Prof. Pomol.

*†C. J. Noll, M. S., Asst. Prof. Oler.

*†M. L. Odland, Ph. D., Prof. Oler.

*†P. B. Pfahl, M. S., Instr. Flor.

*‡E. G. Price, Jr., Asst. Prof. Ornamental Hort. Ext.

*‡A. O. Rasmussen, B. S., Prof. Ornamental Hort, Ext.

*†J. U. Ruef, M. S., Prof. Pomol. Ext.

*†J. G. Seeley, Ph. D., Prof. Flor.

*†C. B. Smith, Ph. D., Asst. Prof. Plant Nutr.

*†F. B. Thomas, M. S., Instr. Pomol.

*†Walter Thomas, D. Sc., Prof. Plant Nutr.

*†W. W. Trainer, M. S., Asst. Prof. Landsc.

* W. W. Trame, Construction.

Horticulture-Continued

*†L. D. Tukey, M. S., Asst. Prof. Pomol.

*†D. G. White, Ph. D., Prof. Pomol.

*†\$C. W. Wild, B. Arch., M. S., Asst. Prof.
Landsc. Arch.

*†W. H. Wilson, M. S., Assoc. Prof. Landsc.
Hort.

Poultry Husbandry:

*†E. W. Callenbach, M. S., Head of Dept. *†G. O. Bressler, Ph. D., Asst. Prof. Poultry

*†C. O. Dossin, M. S., Prof. Poultry Husb. Ext. *†E. B. Hale, Ph. D., Asst. Prof. Poultry

*†E. B. 1 Husb

*‡H. H. Kauffman, M. S., Prof. Poultry Husb.

*‡H. H. Kauffman, M. S., Prof. Poultry Husb.
Ext.

*‡R. G. Lauffer, B. S., Asst. Prof. Poultry
Husb. Ext.

*‡F. H. Leuschner, B. S., Assoc. Poultry
Husb. Ext.

*†P. H. Margolf, B. S., Prof. Poultry Husb.

*†A. J. G. Maw, Ph. D., Prof. Poultry Husb.

*†M. G. McCartney, Ph. D., Asst. Prof. Poultry Husb.

*†R. R. Murphy, Ph. D., Prof. Poultry Husb.

Zoology and Entomology:

*†E. H. Dusham, Ph. D., Head of Dept. *‡L. E. Adams, M. S., Asst. Prof. Ent. Ext. *†E. J. Anderson, M. S., Assoc. Prof. Apiculture.

*†Dean Asquith, M. S., Assoc. Prof. Econ.

ture.

*†Dean Asquith, M. S., Assoc. Prof. Econ.
Ent.

*†N. D. Blackburn, Ph. D., Assoc. Prof. Econ.
Ent.

*†R. D. Casselberry, M. S., Prof. Zool.

*†W. W. Clarke, Jr., B. S., Instr. Ent. Ext.

*†B. F. Coon, Ph. D., Assoc. Prof. Econ. Ent.
(P. O., R. D. 3, Lancaster).

*†J. A. Cox, Ph. D., Assoc. Prof. Econ. Ent.
(P. O., North East).

*†L. E. Dills, Ph. D., Assoc. Prof. Econ. Ent.

*†P. F. English, Ph. D., Prof. Widdlife Mgt.

*†H. W. Frings, Ph. D., Assoc. Prof. Ent.

*†S. W. Frost, Ph. D., Assoc. Prof. Ent.

*†S. G. Gesell, B. S., Asst. Prof. Ent. Ext.

*†Amy M. J. Kerstetter, M. S., Instr. Zool.

*†Henry Menusan, Jr., Ph. D., Assoc. Prof.
Ent. Ext.

*†G. B. Newman, M. A., Prof. Zool.

*†J. O. Pepper, M. S., Prof. Ent. Ext.

*†C. W. Rutschky, Ph. D., Prof. Ent. Ext.

*†C. W. Rutschky, Ph. D., Prof. Econ. Ent.

*†C. A. Thomas, B. S., Assoc. Prof. Econ. Ent.

*†C. A. Thomas, B. S., Assoc. Prof. Econ. Ent.

*†C. A. Thomas, B. S., Assoc. Prof. Econ. Ent.

*†E. J. Udine, Asst. in Ent. Ext.

*†Merrill Wood, M. S., Asst. Prof. Zool.

*†C. C. Zeliff, Ph. D., Asst. Prof. Zool.

**Merrill Wood, M. S., Asst. Prof. Zool.

Miscellaneous:

*†Anna E. Malone, B. S., Agr. Libr. *†R. S. Beese, Photog.

PUERTO RICO

College of Agriculture and Mechanic Arts (Mayagüez) and the Extension Service of the University of Puerto Rico, Río Piedras

*College faculty. ‡Extension staff. \$Leave of absence. ||Military leave.

*Jaime Benítez, M. A., LL. M., Chancellor of University.
*Luis Stéfani, B. S., Vice Chancellor of University, Dean Faculty of Engin., Coll.
of Agr. and Mech. Arts, in charge.
*Ovidio Garcia-Molinari, Ph. D., Dean Faculty of Agr.
‡Roberto Huyke, M. S., Dir. of Emt. Service.

Agronomy:

*Ovidio García-Molinari, Ph. D., Prof. and

Head of Dept.

‡R. A. Bonilla, M. S., Asst. Crop. Spec.

*Juan Colom-Avilés, M. S., Instr. Agron.

‡M. E. Ferrer, B. S., Soil Conserv.

Agronomy--Continued

*David Gómez-Montoya, M. S., Instr. Agron.

*W. R. Morrison, M. S., Lect. Agr. Econ.

‡Francisco Joglar-Rodríguez, M. S., Crop

Spec. and Head of Project.

*Rafael Pietri-Oms, M. S., Asst. Prof. Agron.

Agronomy—Continued

*Andrés Ramírez-Rivera, B. S., Asst. Prof.

Agron.
*Pedro Richardson-Kuntz, B. S., Prof.

Agron.
‡Emilio Vales, B. S., Crop Spec.
‡S. A. Vivaldi-Briganti, B. S. F., Lect. Agron.

Animal Husbandry and Veterinary Science:

*A. A. Alvarez, V. M. D., Prof. and Head of \overline{Dept} .

*Bartolomé Alzamora, M. S., Assoc. Prof. An. Husb. ||C. L. Arcelay-Walker, B. S., Instr. An.

* || C. Arcelay-Walker, B. S., Instr. An.

*Samuel Basherov, M. S., Prof. An. Husb. †A. Budet-Dominguez, M. S., Assoc. An.

*Samue.

*A. Budet-Domínguez, M. S., Ass.

*Husb.

*Carlos Gaztambide-Arrillaga, M. S., An.

*Husb. and Head of Project.

*Elias Hernández, B. S., Asst. An. Husb.

*R. A. Nadal, M. S., Asst. Prof. An. Husb.

*A. T. Sifontes, Cow Tester.

Biology:

*J. A. Ramos, M. S., Prof. Zool. and Dir. of Dept.
*Amelia Arana-Soto, B. S., Instr. Biol.
*Virgilio Biaggi, Jr., Ph. D., Assoc. Prof.

*Arturo Brenes, M. S., Asst. Prof. Biol. *J. A. Ferrer-Monge, M. S., Asst. Prof. Biol.

Biol.

*Arturo González-Mas, B. S., Instr. Biol.

*Herminio Lugo-Lugo, M. S., Instr. Biol.

*José Muratti, B. S., Instr. Biol.

*J. A. Rivero. B. S., Instr. Biol.

*Luis Roure-Riera, B. S., Lab. Asst.

*Germaine L. Warmke, M. S., Asst. Prof. Biol.

Chemistry and Sugar Engineering:

*I. L. Martinez-Picó, B. S., Assoc. Prof. and Head Dept. of Chem. *I. R. Peña, M. S., Visiting Assoc. Prof. in charge Dept. of Chem. Engin. *Sara V. de Colom, B. S., Asst. Instr. Chem. *Manuel Feliberti, B. S., Asst. Prof. Chem. *Julio Hernández-Fragoso, B. S., Instr. Chem. Engin.

Chem. Engin. *Justo Hernandez-Mora, B. S., Asst. Prof. Chem.

*Maria A. López-Pumarada, B. S., Instr. Chem.

*Hernán Pérez-Milán, M. S., Asst. Prof. Chem. *Francisco Ramfrez-Rivera, B. S., Assoc.

Prof. Chem. Engin. *Mrs. Irma G. Rieckehoff, M. S., Asst. Prof.

Chem.

*Hector Stella, B. S., Asst. Prof. Chem. Engin.

*Consuelo Suarez, B. S., Asst. Instr. Chem.

Economics (Agr.):

†Pedro Benn, Accounting Spec.
†Enrique Gelpí, B. S., Spec. Agt. Farm Mgt.
‡Roberto Lefebre-Muñoz, B. S., Econ.
‡Bartolomé Morell, B. S., Mktg. Spec.
*H. J. Rivera, B. S., Asst. Prof. Econ.
‡L. A. Suårez, B. S., Econ.
‡Héctor Zayas-Chardón, M. S., Econ. and
Head of Project.

Education (Agr.):

*Juan Robles-Arzuaga, B. A. Ed., M. S., Prof. and Head of Dept.

Education (Agr.)—Continued

*Federico Cedó, B. S., Instr. Agr. Ed.
*Reinaldo Martínez-Acevedo, B. S. A., Instr.
(Itinerant Teacher) Agr. Ed.
‡J. A. Millân-Sambolin, B. S. A., Instr.
Agr. Ed.
*Joaquin Oliver, B. S., Instr. Agr. Ed.
*Pedro Silva, B. S., Instr. Agr. Ed.

Engineering (Agr.):

*Adolfo Eschenwald-Hess, M. S., Assoc. Prof. Agr. Engin. *J. H. Rodríguez-Arias, M. S. A. E., Assoc.

Prof. Agr. Engin.

Extension Administration:

**Roberto Huyke, M. S., Dir.

‡Antonio Pérez-Garcia, B. S., Vice Dir.

‡Enrique Alverio-Pimentel, B. S., Dist.

Supvr. Agr. Ext. Agts.

‡Antonio Atliés, B. A., Asst. Editor in

charge Visual Aids.

‡Elba M. Bigay, B. S., Asst. Press and Radio

Editor

Editor. ‡Nieves Diaz, Asst. Editor in charge Radio Programs.

‡Eugenio Figarella, B. S., Dist. Supvr. Agr. Ext. Agts. ‡Ramon Font, B. S., Dist. Supvr. Agr. Ext.

Agts.

‡Francisco González, B. S., Dist. Supvr. Agr.

Ext. Agts.

‡J. A. González-Saldaña, B. S., Ext. Editor and Head of Project.

‡M. E. López, B. S., Asst. Press and Radio

†M. E. LOPEZ, D. S., ASSL. 1.1000 MIN LUGAL Editor. †A. Mayoral-Reinat, B. S., 4-H Club Leader and Head of Project. †Policarpo Olano, B. B. A., Finance Officer. †Pedro Olivencia, B. S., Assl. 4-H Club Leader-Boys

Leader—Boys.

#Modesto Ortiz-Rigau, B. S., Gen. Supvr.

Surora R. Padilla, B. S., Asst. 4-H

Club Leader—Gtrls.

A. Vicens, B. A., Asst. Editor in charge

Tech. Pubs.

Forestry:

‡J. B. Gaztambide, B. S., Ext. For. ‡J. B. Cintron, Asst. to Ext. For.

Home Economics:

tEsther Seijo-Tizol, Ph. D., Asst. Dir. in charge Home Dem. Work and Food and Nutr. Spec. tMrs. Hilda I. Bellaflores, B. S., Dist. Supvr. tMrs. Zoraida V. Caballero, B. S., Dist.

Supvr.

†Mrs. Amneris D. González, B. S., Home Mgt. Spec. †Mrs. Josefina Y. Irizarry, B. S., Dist.

Supvr.

‡Francisca Laguna, B. S., Home Indus. Spec

tRosa M. Ordoñez, B. S., Health and Hyg.

‡Mrs. Aida M. Soegaard, B. S., Dist. Supvr.

Horticulture:

*C. G. Salazar-Rivera, M. Agr., Asst. Prof. and Head of Dept.

*§Josefina Altiery-Irizarry, B. S., Instr.

*Hort. †M. A. Díaz, B. S., Asst. Hort. *Francisco Jordán-Molero, B. S. A., Instr. Hort.

†Pedro Osuna, B. S., Hort. †Teodoro Soto, B. S., Fruit Spec.

PUERTO RICO

Agricultural Experiment Station of the University of Puerto Rico, Río Piedras

\$Leave of absence. ||Military leave.

†Arturo Roque, M. S., Director. †B. G. Capó, Ph. D., Asst. Dir. for Res.

Agronomy and Horticulture:

, Head of Dept.
†Félix Aróstegui, M. S., Assoc. Agron.
†A. Cruz-Miret, B. S., Res. Asst. in Agron.
†Pablo Landrau, Jr., M. S., Asst. Agron.
†M. Martinez, M. S., Res. Asst. in Agr. Engin.

†Fenginand Méndez, M. S., Assoc. Agron. †William Pennock, M. S., Assoc. Hort. †J. P. Rodríguez, B. S., Assoc. Agron. †M. A. Valencia, B. S., Res. Asst. in Stat. †F. Vázquez, B. S., Res. Asst. in Stat.

Animal Husbandry:

†R. Rivera Brenes, M. S., Assoc. An. Husb., Actg. Head of Dept.
†J. I. Cabrera, M. S., Asst. An. Husb. †L. F. Colôn, B. S., Res. Asst. in Chem. †E. del Toro, M. S., An. Husb. †F. J. Marchán, M. S., Asst. Chem. †J. Martínez, B. S., Res. Asst. in Bact. †J. Rivera-Anaya, D. V. M., Assoc. Vet.

Chemistry:

, Chem., Head of Dept.
†Leonardo Igaravídez, B. S., Asst. Chem.
†B. López-Ramos, B. S., Res. Asst. in Chem.
†Mrs. I. G. Rieckehoff, M. S., Asst. Chem.
†F. Sánchez-Nieva, M. S., Assoc. Chem.

Economics (Agr.):

†\$ Isidoro Aviles, M. A., Res. Asst. in Econ.
†H. Bayrón, B. S., Res. Asst. in Econ.
†A. Burgos, B. S., Res. Asst. in Econ.
†J. R. Calderón, B. S., Res. Asst. in Econ.
†J. R. Calderón, B. S., Res. Asst. in Econ.
†G. Espinet, B. S., Res. Asst. in Econ.
†Daniel Haddock, M. B. A., Assoc. Econ.
†L. Hernández, B. A., Res. Asst. in Econ.
†Kanuel Piñero, B. S., Asst. Econ.
†Félix Román, M. S., Res. Asst. in Econ.
†\$Guillermo Serra, Ph. D., Econ.
†Edmundo Silva, B. S., Res. Asst. in Econ.
†P. Vázquez-Calcerrada, Ph. D., Assoc. Rural Sociol.

ral Sociol.

Entomology:

†G. N. Wolcott, Ph. D., Ent., Head of Dept. †L. F. Martorell, Ph. D., Ent. †M. E. Pérez, M. S., Asst. Ent.

Plant Breeding:

†P. González-Ríos, M. S., Assoc. Plant Breeder, Actg. Head of Dept. †Efraín Boneta, M. S., Asst. Plant Breeder. †Mrs. A. Hernández, M. S., Res. Asst. in Cytology. †F. Mariota-Trías, M. S., Asst. Plant

† SC. G. Moscoso, B. S., Res. Asst. in Plant

Brdg. †J. Velez-Fortuño, M. S., Asst. Plant Breeder.

Plant Pathology:

†L. A. Alvarez, M. S., Plant Path., Head of

Dept.

†José Adsuar, B. S., Plant Path.

†J. Bird, M. S., Res. Asst. in Plant Path.

†L. López, B. S., Res. Asst. in Plant Path.

Plant Physiology:

-, Plant Physiol., Head of †Mrs. María del C. C. Fernández, Ph. G., Asst. Plant Physiol. †Ernesto Hernández, M. S., Asst. Plant Physiol. †José Martinez, B. S., Res. Asst. in Chem.

Plant Physiology-Continued

†L. Miranda, B. S., Res. Asst. in Chem. †G. Samuels, Ph. D., Plant Physiol. §M. A. Tío, M. S., Asst. Plant Physiol.

Soils:

†J. A. Bonnet, Ph. D., Soil Sci., Head of Dept.
†M. A. Lugo-López, Ph. D., Assoc. Soil Sci.
†Alfonso Riera, B. S., Asst. Chem.
†Julián Roldán, B. S., Res. Asst. in Chem.

School of Tropical Medicine:

†Miss D. Fernández, B. S., Res. Asst. in Chem. †Ana I. Muniz, B. S., Res. Asst. in Chem. †Mrs. G. M. Urrutia, B. A., Res. Asst. in

Nutr. University of Puerto Rico (Institute of Nutr.): †Miss L. D. Rodríguez, M. S., Res. Asst. in

Chem. †Miss L. Colon, B. S., Res. Asst. in Chem.

Library and Publications:

†Miss M. L. Betances, M. S., Libr. †E. Molinary, B. S., Assoc. Editor.

Service Department:

†C. J. Clavell, B. S., Admin. Asst. †R. Grant, B. S., Res. Asst. in Agron., in charge of Sta. Farm.

Rum Pilot Plant:

†V. Rodríguez-Benítez, M. S., Tech. Dir. †H. M. Brau, M. S., Asst. Chem. †Mrs. E. Brugueras, B. S., Res. Asst. in Chem. †§A. García, M. S., Asst. Chem. †§Mrs. Yolanda Pirazzi de Landrau, M. S.,

Asst. Chem.
†R. Mariñelarena, Ph. D., Assoc. Bact.
†Josefina Rivera, M. S., Asst. Chem.

Substations and Seed Farms:

Main Office, Seed Farms Div.: R. Vizcarrondo, B. S., Agron., Head of

C. Rigau, M. S., Asst. Agron. An. Prod. Substa. (La Plata): Manual Rojas, M. S., Asst. An. Husb. I. Carlo, B. S., Res. Asst. in An. Husb. Coffee:

A. Rodríguez-Cabrera, M. S., Asst. Agron. in charge.

S. Rodríguez, B. S., Res. Asst. in Agron. Isabela:

abela:
Arturo Riollano, M. S., Agron. in charge.
Marciano Avilés, M. S., Asst. Agron. in
charge of Seed Farm.
C. M. Cabrera, B. S., Res. Asst. in
Agron.
M. C. Guevara, M. S., Asst. Agron.
F. Meyer, B. S., Res. Asst. in Agron.
aias:

Lajas :

A. González-Chapel, M. S., Assoc. An. Husb. in charge.

F. Gelpí, B. S., Res. Asst. in An. Husb. L. B. Ortiz, M. S., Res. Asst. in Agron.

IC. A. Ortiz-Lugo, B. S., Asst. Agron.

Minor Crops (Corozal):

H. Gandia-Diaz, B. S., Assoc. Agron. in

charge.

R. Olivencia, M. S., Res. Asst. in Agron. C. Rivera-López, B. S., Asst. Agron. Plant Propagation Substa. (Trujillo Alto): , Asst. Agron. in charge.

Tobacco:
A. S. Amy, B. S., Assoc. Agron. in charge.

RHODE ISLAND

Schools of Agriculture and Home Economics, Agricultural Experiment Station, and Extension Service in Agriculture and Home Economics of the University of Rhode Island, *Kingston*

*College faculty. †Station staff. ‡Extension staff.

*†‡C. R. Woodward, Ph. D., Litt. D., D. Sc., President.
*†M. H. Campbell, Ph. D., Dean School of Agr., Dir. of Sta.
*Olga P. Brucher, M. A., Dean School of Home Econ.
*E. P. Christopher, Ph. D., Vice Dean School of Agr.
‡H. O. Stuart, M. S., Dir. of Ext. Service.
*†\$S. S. Gairloch, Treas.
†Mrs. Daisy K. Van Hooser, M. S., Admin. Asst.

Agronomy:

*†T. E. Odland, Ph. D., Head of Dept. *†R. S. Bell, Ph. D., Asst. Prof. Agron. †J. A. DeFrance, Ph. D., Res. Prof. Agron. †D. A. Schallock, M. S., Asst. and Ext. Agron.

Animal Husbandry:

‡J. W. Atwood, B. S., Ext. Dairy Spec. *J. O. Buchanan, B. S., Asst. Prof. An. and

Dairy Husb.
rville Curtis, Junior Asst. in An. and

Dairy Husb. *J. D. Podds, B. S., Instr. An. and Dairy Husb.

*†B. W. Henderson, Jr., M. S., Asst. Prof. An. and Dairy Husb. *J. E. Ladd, M. S., Prof. Dairy Husb.

Animal Pathology:

*†J. P. Delaplane, D. V. M., M. S., Head of Dept.

†Dorothy E. Fry, B. A., Junior Asst. in An.

Path. *†V. J. Yates, D. V. M., Asst. Prof. An. Path.

Chemistry (Agr.):

*†J. B. Smith, M. S., Head of Dept. †R. M. Beverage, B. S., Asst. Chem. †R. W. Gilbert, B. S., Asst. Res. Prof. Chem. †C. E. Olney, B. S., Junior Asst. Chem. †t. E. Salomon, M. S., Asst. Res. Prof. *†‡M. Chem.

Economics (Agr.):

†‡J. L. Tennant, Ph. D., Head of Dept.

*‡G. E. Bond, M. S., Asst. Prof. Agr. Econ.
and Est. Spec. in Planning.
†W. F. Lomasney, B. S., Est. Spec. in Mktg.
†A. L. Owens, M. S., Asst. Res. Prof. Agr.

†E. J. Palmer, B. S., Asst. Agr. Econ. †F. R. Taylor, M. S., Assoc. Res. Prof. Agr. Econ.

Editorial:

*‡H. M. Hofford, Ph. B., Editor. *†D. E. Wells, M. S., Sta. Editor.

Extension Administration:

‡H. O. Stuart, M. S., Dir. and County Agt. Leader. ‡Sara E. Coyne, B. S., State Home Dem.

‡L. F. Kinney, Jr., M. S., State Club Leader.

Forestry:

*‡C. B. Dunwoody, M. F., Instr. For. and Spec. in For. and Conserv.

Home Economics:

*Olga P. Brucher, M. A., Dean of School.
*L. Edith Andrews, M. A., Prof. and Head Dept. of Foods and Nutr.
*Mary-Jane Bacon, M. S., Asst. Prof. Foods and Nutr.
*Thelma Palliana B. S. Head Nurs

*Thelma Ballirano, B. S., Head Nursery School Teacher. *Mrs. Mary A. Briggs, R. N., Instr. Home

Econ.

Home Economics—Continued

*Constance Brine, M. Ph., Asst. Prof. Foods

*Constance Brine, M. Ph., Asst. Prof. Foods and Nutr.
†Phyllis Brown, B. A., Asst Home Econ.
*Grace Burwash, M. A., Assoc. Prof. Tex-tiles and Clothing.
*J. L. Cain, Head Dept. of Art.
*Mrs. Matena Cain, Instr. Art.
*Virginia Carpenter, M. S., Instr. Textiles and Clothing.
*Mrs. Elizabeth W. Christopher, M. A., Asst. Prof. Child Development and Family Re-lations. lations.

tatons.

*Dura-Louise Cockrell, Ph. D., Prof. and Head Dept. of Child Development and Family Relations.

*Mrs. Elizabeth W. Crandall, M. S., Asst. Prof. Home Econ.

*Beverly Downing, M. A., Asst. Prof. Home

*Beverly Downing, M. A., Asst. Prof. Textiles
Econ.

*Marion L. Fry, M. A., Asst. Prof. Textiles
and Clothing.

*Ada Goldberg, B. S., Instr. Child Development and Family Relations.

*Violet B. Higbee, M. A., Ext. Spec. in Clothing, Foods, and Nutr.

*Helen H. Johnson, M. A., Asst. Prof. Child
Development and Family Relations.

*Emma Kimball, B. S., Asst. Prof. Home
Econ.

Econ. †Mrs. Blanche M. Kuschke, M. S., Asst. Res. Prof. Home Econ. *Mrs. Marjorie Schunke, B. S., Instr. Home

Econ.

†Grace H. Smith, B. S., Instr. Home Econ. *Mrs. Arline P. Tilton, M. S., Assoc. Prof. Home Econ. *†Ruth E. Tucker, Ph. D., Assoc. Prof. Foods

and Nutr.

Horticulture:

†‡E. P. Christopher, Ph. D., Head of Dept. *†J. W. Caddick, M. S., Asst. Prof. Hort. †D. D. Dolan, Ph. D., Asst. Res. Prof. Hort. *†C. J. Kneeland, B. S., Instr. Hort. and Ext. Spec. Veg. Gard.

*W. E. Larmie, B. S., Instr. Hort.

*†V. G. Shutak, Ph. D., Asst. Prof. Hort.

Mechanized Agriculture:

*‡H. E. Gulvin, Head of Dept.

Plant Pathology and Entomology:

*†F. L. Howard, Ph. D., Head of Dept. †Mary-Elizabeth Davies, B. S., Junior Asst. in Plant Path.

†A. W. Feldman, Ph. D., Asst. Res. Prof. Plant Path.

†T. W. Kerr, Jr., Ph. D., Assoc. Res. Prof. Ent.

‡M. C. Shurtleff, M. S., Ext. Spec. in Ent. and Plant Path.

Plant Physiology:

†Irene H. Stuckey, Ph. D., Head of Dept.

Poultry Husbandry:

*†W. H. Wiley, Ph. D., Head of Dept.
*†T. C. Higgins, B. S., Asst. Prof. Poultry
Husb. and Ext. Poultry Spec.

Poultry Husbandry-Continued

*†S. B. Smith, M. S., Instr. and Asst. Poultry Husb.

Sociology (Rural):

*L. G. Brown, Ph. D., Head of Dept. *Mrs. Helen E. Carpenter, B. A., Asst. Instr. Social

Sociology (Rural) -- Continued

*R. V. Gardner, M. A., Asst. Prof. Sociol. *‡I. A. Spaulding, Ph. D., Asst. Prof. Sociol. and Spec. in Rural Sociol.

Miscellaneous:

*F. P. Allen, M. A., Libr. †W. J. Champlin, Met.

SOUTH CAROLINA

Clemson Agricultural College and the Agricultural Experiment Station, Clemson

*College faculty. †Station staff. \$Leave of absence. ‡Extension staff.

*R. F. Poole, Ph. D., D. Sc., LL. D., President.

*†H. P. Cooper, Ph. D., Dean School of Agr., Dir. of Sta.

‡D. W. Watkins, M. A., Dir. of Ext. Service.

‡T. W. Morgan, M. S., Asst. Dir. of Ext. Service.

*†‡A. J. Brown, Treas.

Agronomy:

*G. H. Collings, Ph. D., Head of Coll. Dept. †W. R. Paden, Ph. D., Head of Sta. Dept. †O. W. Beale, M. S., Soil Sci. (Coop. U. S.

D. A.).

‡H. G. Boylston, B. S., Ext. Cotton Im-

‡H. G. Boylston, B. S., Ext. Cotton Improvement Spec.

‡W. H. Craven, B. S., Ext. Agron.

†\$E. B. Eskew, B. S., Asst. Agron.

†\$R. H. Garrison, B. S., Assoc. Plant Breeder.

†\$J. G. Hammons, Asst. Prof. Agron.

†\$R. H. Hawkins, M. S., Assoc. Agron.

*\$C. M. Jones, M. S., Assoc. Prof. Agron.

*\$C. M. Jones, M. S., Assoc. Prof. Agron.

†\$J. W. Jones, M. S., Assoc. Prof. Agron.

‡J. W. Jones, M. S., Ext. Tobacco Spec.

(P. O., Florence).

‡J. R. Mattison, B. S., Ext. Tobacco Spec.

†N. R. Page, M. S., Assoc. Agron.

†C. S. Patrick, B. S., Head of Farms Dept.

*E. M. Rallings, M. S., Asst. Prof. Agron.

*\$R. C. Shelley, B. S., Assoc. Prof. Agron.

†E. H. Stewart, M. S., Soil Sci. (Coop. U. S. D. A.).

D. A.). ‡H. A. Woodle, B. S., Leader Agron. Ext. Work.

Animal Husbandry:

nimal Husbandry:

*†L. V. Starkey, M. S., Head of Dept.

†L. F. Cato, B. S., Ext. Livestock Spec.

(P. O., Spartanburg).

*J. R. Cook, M. S., Assoc. Prof. An. Husb.

†A. L. DuRant, M. S., Ext. Livestock Spec.

(P. O., Florence).

†E. G. Godbey, B. S., An. Husb.

*W. C. Godley, M. S., Asst. Prof. An. Husb.

*J. T. Graves, M. S., Ext. Livestock Spec.

*\$Draytford Richardson, B. S., Asst. Prof. An. Husb.

An. Husb.

†W. A. Ridgeway, B. S., Ext. Livestock

*§R. R. Ritchie, M. S., Prof. An. Husb.

Botany and Bacteriology:

**Gotany and Bacteriology:

*†G. M. Armstrong, Ph. D., Head of Dept.
(State Path.).

†W. B. Albert, Ph. D., Assoc. Plant Physiol.
†C. H. Arndt, Ph. D., Assoc. Bot. and Plant
Path.

†C. C. Bennett, B. S., Asst. Bot.
†H. H. Foster, Ph. D., Assoc. Plant Path.

*A. C. Mathews, Ph. D., Assoc. Prof. Bot.
*D. B. Rosenkrans, M. A., Prof. Bot.
*J. M. Rush, Ph. D., Assoc. Prof. Bact.
*R. W. Rutledge, Ph. D., Assoc. Prof. Bot.
*W. P. Van Eseitine, Ph. D., Assoc. Prof.
Bact.
*J. B. Whitney, Jr., Ph. D., Assoc. Prof.

*J. B. Whitney, Jr., Ph. D., Assoc. Prof. Bot.

Chemistry (Agr.):

*H. L. Hunter, Ph. D., Dean School of Chem.

*P. P. Carodemos, Ph. D., Assoc. Prof. Chem.

Chemistry (Agr.) - Continued

†B. D. Cloaninger, B. S., Head Dept. of Fert. Insp. and Anal.
†J. T. Foy, B. S., Chem. in Fert. Control.
†E. J. Lease, Ph. D., Nutr.
†E. E. Leslie, B. S., Asst. Chem. in Fert.

Control.

*†J. H. Mitchell, M. S., Prof. Chem.; Chem. †M. M. Phillippe, M. S., Asst. Chem. in Fert. Control.

†D. B. Roderick, B. A., Asst. Chem. †H. J. Webb, Ph. D., Chief Chem. and Toxicologist, Dept. Fert. Insp. and Anal.

Dairy Husbandry:

Dairy Husbandry:

*†J. P. La Master, M. S., Head of Dept.

*C. G. Cushman, B. S., Leader Dairy Ext.

Work.

†G. M. Barnett, B. S., Asst. Dairyman.

†G. W. Brandt, M. S., Assoc. Dairy Husb.

(Coop. U. S. D. A.).

†C. C. Brannon, B. S., Assoc. Dairyman.

†W. M. DuPree, B. S., Asst. in Dairying.

*B. E. Goodale, M. S., Prof. Dairying,

†Victor Hurst, Ph. D., Prof. Dairying, Asst.

in Dairying.

*J. T. Lazar, M. S., Asst. Prof. Dairying.

*C. H. Lomas, B. S., Ext. Dairy Spec.

‡J. W. Lyle, B. S., Asst. Dairy Spec.

*C. H. Strickland, B. S., Instr. Dairying.

Economics (Agr.) and Rural Sociology:

*†G. H. Aull, Ph. D., Head of Dept. ‡L. M. Asbill, Ext. Mktg. Spec. (P. O., Co-lumbia).

‡L. M. Asbill, Ext. Mktg. Spec. (P. O., Columbia).

*L. M. Bauknight, M. S., Asst. Prof. Agr. Econ.

*†V. A. Boyd, M. S., Asst. Prof. and Asst. Rural Sociol.

†C. P. Butler, M. S., Agr. Econ. (Coop. U. S. D. A.).

‡T. A. Cole, B. S., Chief Ext. Div. of Mktg. (P. O., Columbia).

†D. E. Crawford, M. S., Asst. Agr. Econ.

†C. L. Crenshaw, M. S., Asst. Agr. Econ.

†C. D. Evans, A. B., Asst. Agr. Econ.

†W. T. Ferrier, Ph. D., Prof. Agr. Econ.;

Agr. Econ.

‡W. R. Flemming, B. S., Ext. Mktg. Spec. (P. O., Columbia).

‡L. C. Hamilton, B. S., Ext. Mktg. Spec. (P. O., Columbia).

‡L. D. Malphrus, M. S., Asst. Agr. Econ.

‡R. H. Martin, B. S., Ext. Mktg. Spec. (P. O., Golumbia).

‡R. D. McNair, B. S., Ext. Livestock Mktg. Spec. (P. O., Golumbia).

†J. F. Miles, Ph. D., Assoc. Agr. Econ.

‡R. J. Park, M. S., Ext. Poultry Mktg. Spec. (P. O., Columbia).

†J. Fark, M. S., Ext. Poultry Mktg. Spec. (P. O., Columbia).

†J. Park, M. S., Ext. Poultry Mktg. Spec. (P. O., Columbia).

Economics (Agr.) and Rural Sociology-Con.

IM. C. Rochester, Ph. D., Leader Agr. Econ.

Ext. Work. \$\$E. W. Siedschlag, B. S., Ext. Mktg. Infor-

‡§E. W. Siedschlag, B. S., Ext. Mktg. Information Spec.
†C. R. Smith, Ph. D., Assoc. Prof. and Assoc. Agr. Econ.
†R. D. Steer, B. S., Ext. Coop. Mktg. Spec. (P. O., Greenwood).
*J. M. Stepp, Ph. D., Prof. Agr. Econ.
†H. L. Streetman, M. S., Asst. Agr. Econ.
†M. H. Sutherland, B. S., Ext. Agr. Econ.
†B. J. Todd, M. S., Asst. Agr. Econ.
‡W. A. Tuten, Ext. Mktg. Spec. (P. O., Columbia).

Columbia). tP. S. Williamon, B. S., Farm. Mgt. Spec.

Education (Voc.):

*W. H. Washington, M. S., Dean of School. *L. R. Booker, M. S., Itinerant Teacher

*W. H. Washington, M. S., Itinerant Teacher Trainer.

*W. C. Bowen, M. S., Asst. Prof. Voc. Ed.

*J. L. Brock, M. A., Actg. Prof. Indus. Ed.

*F. E. Kirkley, B. S., Actg. Prof. Voc. Ed.

*I. B. Monroe, M. S., Assoc. Prof. Voc. Ed.

*Verd Peterson, A. B., State Dir. Voc. Ed.

*Verd Peterson, A. B., State Dir. Voc. Ed.

*West. S. Tate, M. S., Assoc. Prof. Voc. Ed.

*H. S. Tate, M. A., Assoc. Prof. Voc. Ed.

*T. A. White, Ph. D., Prof. Voc. Ed.

Engineering (Agr.):

*†G. B. Nutt, M. S., Head of Dept.
†G. H. Dunkelberg, M. S., Assoc. Agr. Engin.
†J. S. Evans, B. S., Asst. Agr. Engin.
†P. M. Garvin, Asst. Agr. Engin.
‡L. W. Johnson, B. S., Food Improvement
Spec.
†W. P. Law, B. S., Assoc. Agr. Engin.
†H. P. Lynn, Asst. Agr. Engin.
*W. N. McAdams, M. S., Assoc. Prof. Agr.
Engin.

Engin.

‡M. C. McKenzie, B. S., Ext. Agr. Engin.

†J. K. Park, M. S., Agr. Engin (Coop. U. S.

D. A.).
*J. B. Richardson, M. S., Assoc. Prof. Agr.

Engin.

*Engin.
*E. B. Rogers, Jr., B. S., Asst. Prof. Agr. Engin.
*A. W. Snell, B. S., Asst. Prof. Agr. Engin.
†G. H. Stewart, M. S., Leader Agr. Engin.
*Ext. Work.
†E. C. Turner, B. S., Ext. Conserv.
†S. A. Williams, B. S., Cotton Ginning Spec.

Entomology-See Zoology.

Extension Administration:

xtension Administration:

‡D. W. Watkins, M. A., Dir.

‡T. W. Morgan, M. S., Asst. Dir.

‡Juanita Neely, M. S., State Home Dem. Agt.

(P. O., Rock Hill).

‡L. O. Clayton, B. S., State Boys' Club Agt.

‡Eloise Johnson, B. S., State Girls' Club Agt.

‡Eloise Johnson, B. S., State Girls' Club Agt.

†J. K. Jones, Dist. Boys' 4-H Club Agt.

†J. T. Rogers, B. S., Dist. Boys' 4-H Club Agt.

†J. T. Rogers, B. S., Dist. Boys' 4-H Club Agt.

†J. R. Smith, B. S., Dist. Boys' 4-H Club Agt.

†Cub Agt. (P. O., Alken).

‡Louise Heriot, B. S., Asst. State Girls' 4-H Club Agt. (P. O., Rock Hill).

‡Jane Ketchen, B. S., Asst. State Home Dem. Agt. (P. O., Rock Hill).

‡Laura Connor, B. S., Dist. Agt. (P. O., Alken).

†J. T. Lazar, B. S., Dist. Agt. (P. O., Spartanburg). †A. H. Ward, M. S., Dist. Agt. (P. O.,

Forestry:

†W. J. Barker, B. S., Leader For. Ext. Work. †N. B. Goebel, M. S., Assoc. For. ‡C. W. Hall, B. S., Ext. For. *Koloman Lehotsky, Ph. D., Assoc. Prof.

For. ‡S. A. Marbut, B. S., Ext. For.

Home Economics:

†Ada M. Moser, M. S., Head of Res. Dept. ‡Curtys Ballentine, B. S., Ext. Health Spec. (P. O., Rock Hill). ‡Ruby Craven, B. S., Home Mgt. Spec. †Mary F. Kendall, B. S., Asst. in Home

Econ.

Econ.

Margaret Martin, M. S., Ext. Food Prod.

and Conserv. Spec.

Janie McDill, M. S., Ext. Nutr.

Sallie Pearce, B. S., Home Dem. Mktg.

Spec. (P. O., Rock Hill).

Florence E. Roach, A. B., Asst. Home Econ.

Portia Seabrook, M. S., Clothing Spec.

Elizabeth S. Watson, M. A., Asst. Home

Econ. Econ.

Horticulture:

*†A. M. Musser, B. S., Head of Dept.

‡H. A. Bowers, B. S., Ext. Truck Crop Spec.

†J. H. Crawford, B. S., Asst. Hort.

‡R. J. Ferree, M. S., Ext. Hort.

†O. B. Garrison, Ph. D., Prof. Hort.; Hort.

†R. J. Higdon, B. S., Asst. Hort.

†J. A. Martin, B. S., Assc. Hort.

‡A. E. Schilletter, B. S., Leader Hort. Ext.

Work.

*†H. J. Sefick, M. S. Assoc. Prof. and Assoc.

*†H. J. Sefick, M. S., Assoc. Prof. and Assoc. Hort.

*T. L. Senn, M. S., Asst. Prof. Hort.

*F. W. Thode, B. S., Asst. Prof. Hort.

†L. O. Van Blaricom, M. S., Assoc. in Hort.

Mfrs.

Poultry Husbandry:

†C. L. Morgan, M. S., Head of Dept.
†M. A. Boone, M. S., Asst. Poultryman.
†J. B. Cooper, M. S., Assc. Poultryman.
†C. A. Dodson, B. S., Asst. An. Path.
†P. H. Gooding, M. S., Leader Ext. Poultry
Work.

Work.

‡W. B. Nesbit, B. S., Turkey Spec. (P. O., Columbia).

‡E. A. Peterkin, B. S., Ext. Poultryman.

‡M. L. Tarpy, Ext. Poultryman.

‡J. E. Thaxton, B. S., Turkey Spec. (P. O., Rock Hill).

†C. P. Willimon B. S., Asst. in Poultry Husb.

Publications:

*†S. C. Stribling, B. S., Agr. Editor and Chief Div. of Pubs.
†J. M. Eleazer, B. S., Information Spec.
†Mrs. Ethel Elmore, Bul. Clerk.
†G. E. Huiet, Jr., B. S., Ext. Spec. in Visual

†P. D. Seabrook, B. S., Radio Spec. *†\$H. M. Simons, Jr., B. S., Asst. Agr. Editor. †‡Doris Timmerman, A. B., Asst. Agr. Editor.

Veterinary Science:

*†R. O. Feeley, D. V. S., Prof. Vet. Sci.; Vet. †G. W. Anderson, D. V. M., M. S., Assoc. An. Path.

Visual Instruction:

†§F. K. Hinnant, B. S., Asst. in Visual Instr. †J. K. Eargle, Asst. in Visual Aids. ‡L. W. Riley, Ext. Spec. in Motion Pictures and Photog.

Zoology and Entomology:

*†M. D. Farrar, Ph. D., Head of Dept. †G. M. Anderson, B. S., Asst. State Path. †J. A. Berly, B. S., Ent. ‡R. M. Berry, M. S., Leader Game Mgt. †W. F. Chamberlain, Ph. D., Assoc. Ent.

Substations-Continued

Zoology and Entomology-Continued

*†J. H. Cochran, Ph. D., Assoc. Ent. *†David Dunavan, M. S., Assoc. Prof. and Assoc. Zool. and Ent. *W. C. Nettles, M. S., Leader Ext. Ent. and Plant Disease Work. *E. I. McDaniel, Assoc. Prof. Ent. †W. H. Purser, M. S., Asst. Bee Spec. ‡L. M. Sparks, B. S., Cotton Insects and Diseases Spec. Pee Dee Expt. Sta., P. O., Florence— E. E. Hall, M. S., Supt. Norman Allen, M. S., Asst. Ent. (Coop. U. S. D. A.). J. F. Bullock, M. S., Agron. (Coop. U. S. D. A.). J. F. Chaplin, B. S., Asst. Agron. Z. T. Ford, B. S., Agt. (Coop. U. S. Diseases Spec. *R. E. Ware, B. S., Assoc. Prof. Zool. and D. A.). T. W. Graham, Ph. D., Aqt. (Coop. U. S. T. W. Graham, Ph. D., Agt. (Coop. U. S. D. A.). D. C. Harrell, B. S., Assoc. Agron. (Coop. U. S. D. A.). F. M. Harrell, Res. Asst. W. H. Jenkins B. S., Agron. (Coop. U. S. D. A.). Alfred Manwiller, Ph. D., Assoc. Plant Recoder *§E. H. Warnhoff, M. S., Assoc. Prof. Zool. and Ent. Miscellaneous: *Cornelia A. Graham, B. S., Libr. Alfred Manwiller, Ph. D., Assoc. Plant Breeder. W. A. Mappus, M. S., Assoc. Agron. W. H. Rolfe, B. S., Agt. W. H. Rumft, B. S., Agt. (Coop. U. S. D. A.) W. E. Vaught, B. S., Agt. W. D. Yeargin, B. S., Agt. Sandhill Expt. Sta., R. 5, Columbia— J. A. Riley, M. S., Supt. Truck Expt. Sta., Box 337, Charleston— W. C. Barnes, Ph. D., Supt. W. M. Epps, Ph. D., Assoc. Plant Path. W. J. Reid, Jr., B. S., Ent. (Coop. U. S. D. A.). Substations: Coast Expt. Sta., P. O., Summerville— E. D. Kyzer, B. S., Supt. T. M. Clyburn, B. S., Assoc. An. Husb. Edisto Expt. Sta., P. O., Blackville— W. B. Rogers, B. S., Supt. Robert Aycock, Ph. D., Assoc. Ent. M. B. Hughes, Ph. D., Assoc. Hort. J. D. McCown, Agt. (Coop. U. S. D. A.). M. R. Powers, B. S., Assoc. Agr. Engin. V. K. Quattlebaum, B. S., Asst. Agr. Engin. V. K. Engin. Wa J. G. Watts, M. S., Ent. J. J. Wolfe, B. S., Asst. Agron. D. A.). Colored Normal, Industrial, Agricultural and Mechanical College of South Carolina, Orangeburg *College faculty. ‡Extension staff. *B. C. Turner, B. A., LL. B., President. *F. M. Staley, M. S., Dean Div. of Agr. *Geraldine J. H. Penn, M. S., Dean School of Home Econ. *Gabe Buckman, B. S., Prof. Agr. Ed. *Elizabeth Calhoun, B. S., Instr. Cafeteria *Mattie E. Pegues, M. A., Itinerant Teacher-Trainer. *S. M. Pinckney, B. S., Prof. Field Crops. Mabel Price, B. S., Asst. State Suppr. *W. E. Pullins, B. S., Asst. Prof. Biol. Mgt. *Dora E. Daniels, M. A., Asst. Itinerant Teacher-Trainer. *La Verte Reed, M. A., Assoc. Prof. Nutr. *A. C. Sims, B. S., Assoc. Prof. Hort. *L. M. Ward, M. S., Prof. Agron. *P. R. Webber, Jr., M. A., Assoc. Prof. Econ. *Edward Dawson, M. S., Assoc. Prof. Dairy Husb. ‡G. W. Dean, B. S., Asst. Prof. Agr. Ed. *L. C. DeCosta, M. S., Asst. Prof. Agr. Ed. *K. W. G. Donma, B. S., Prof. Poultry Husb. *W., F. Hickson, B. S., Actg. Itinerant *W. F. Hickson, B. S., Actg. Itinerant Teacher-Trainer (Agr.). *Wayman Johnson, M. S., Asst. State Supvr. *Athelma R. Nix, B. S. L. S., Libr. *Marion B. Paul, B. S., State Supvr. *Annie B. Williams, B. S., Assoc. Prof. Clothing. ‡E. N. Williams, B. S., State Supvr. *Ophelia C. Williams, M. S., Assoc. Prof. Home Mgt. SOUTH DAKOTA South Dakota State College of Agriculture and Mechanic Arts and the Agricultural Experiment Station, Brookings †Station staff. ‡Extension staff. \$Leave of absence. *College faculty. *F. H. Leinbach, Ph. D., President. *A. M. Eberle, M. S., Dean Div. of Agr. †I. B. Johnson, M. A., Dir. of Sta. †G. I. Gilbertson, M. S., Dir. of Ext. Service. *†‡R. A. Larson, Secy. Agronomy: Agronomy-Continued *†W. W. Worzella, Ph. D., Head of Dept. *†M. W. Adams, Ph. D., Assoc. Prof. and *†C. J. Franzke, B. S., Assoc. Prof. and *†C. J. FTAIZKE, B. S., Assoc. Froj. unw Assoc. Agron. †C. J. Gilbert, B. S., Weed Supvr. †J. E. Graffus, Ph. D., Agron. *†A. N. Hume, Ph. D., Assoc. Agron. *R. C. Kinch, M. S., Asst. Prof. Agron. (Coop. U. S. D. A.). †D. E. Kratochvil, B. S., Instr. and Asst. Agron. *†M. W. Adams, Ph. D., Assoc. Prof. and Assoc. Agron. †J. U. Anderson, B. S., Asst. Agron. †G. A. Avery, B. S., Survey Supvr. (Coop. U. S. D. A.). *†B. L. Brage, Ph. D., Asst. Prof. Agron. ††B. L. Carson, M. S., Asst. Prof. Agron. ‡R. A. Cline, B. S., Assoc. Ext. Agron. †\$L. A. Derscheid, M. S., Asst. Agron. †V. A. Dirks, M. S., Asst. Agron. †C. W. Erion, B. S., Assoc. Prof. Agron. *†L. O. Fine, Ph. D., Assoc. Prof. Agron. (Coop. U. S. D. A.). *†D. E. Krauchyn, B. S., Inev. and A. Agron. ‡L. L. Ladd, B. A., Ext. Soil Conserv. *†G. B. Lee, M. S., Asst. Agron. †D. Martin, B. S., Asst. Weed Supvr. *†§C. W. Moldenhauer, B. S., Asst. Agron.

Agronomy-Continued

*†L. J. Norgaard, B. S., Ext. Agron.

*†L. F. Puhr, Ph. D., Agron.

*†J. G. Ross, Ph. D., Assoc. Prof. and Assoc.

Agron.

‡E. E. Sanderson, B. S., Ext. Agron.
†Arnold Schooler, B. S., Asst. Agron.
†L. L. Schrader, B. S., Ext. Weed Spec.
†D. B. Shank, Ph. D., Assoc. Prof. and *†D.

*TD. B. Snank, Ph. D., Assoc. Froj. una Assoc. Agron.
†L. M. Stahler, Ph. D., Assoc. Agron. (Coop. U. S. D. A.).
*A. O. Syverud, M. S., Asst. Agron.
*R. F. Walz, B. S., Asst. Agron.
†J. S. Webster, B. S., Asst. Proj. Agron.
†\$F. C. Westin, M. S., Asst. Agron.
†E. J. Swilliamson, B. S., Soils Lab. Tech.
(Coop. U. S. D. I.).

Animal Husbandry:

Animal Husbandry:

*†Karl Rasmussen. Ph. D., Head of Dept.

*†L. O. Embry, Ph. D., Assoc. Prof. and Assoc. An. Husb.

†Henry Holzman, Assoc. Ext. An. Husb.

†C. L. Iverson, M. S., Asst. Ext. An. Husb.

†§R. M. Jordan, M. S., Asst. Prof. and Asst. An. Husb.

*J. L. Kiser, B. S., Asst. Prof. An. Husb.

*J. L. Leibel, B. S., Instr. An. Husb.

*†J. K. Lewis, M. S., Asst. Prof. and Asst. An. Husb.

An. Husb.

*†J. K. Lewis, M. S., Asst. Prof. and Asst. An. Husb.

†J. W. McCarty, M. S., Asst. Prof. and Asst. An. Husb.

†W. C. McCone, M. S., Asst. Prof. and Asst. An. Husb.

†J. J. O'Connell, B. S., Ext. An. Husb.

†E. A. Pierce, M. S., Asst. Prof. and Asst. An. Husb.

*†E. A. Pierce, M. S., Asst. Prof. and Asst. An. Husb.

†R. O. Smith, M. S., Asst. Prof. and Asst. An. Husb.

†R. F. Wilson, Ph. D., Assoc. Prof. and Assoc. An. Husb.

†T. R. H. Wright, B. S., Assoc. Prof. and Assoc. An. Husb.

Botany and Bacteriology:

*W. L. Miller, Ph. D., Head of Dept.
*E. C. Berry, Ph. D., Assoc. Prof. Bact.
*A. R. Grismer, M. S., Assoc. Prof. Bact.
*C. A. Taylor, M. S., Assoc. Prof. Bot.

Chemistry (Sta.):

temistry (Sta.):

†A. L. Moxon, Ph. D., Head of Dept.

†J. P. Baker, B. S., Res. Asst. Chem.

†G. F. Gastler, M. S., Asst. Chem.

†A. W. Halverson, Ph. D., Assoc. Biochem.

†H. L. Klug, Ph. D., Assoc. Biochem.

†F. L. Moyer, M. S., Asst. Chem.

†D. F. Peterson, M. S., Asst. Chem.

†E. I. Whitehead, M. S., Assoc. Chem.

Dairy Husbandry:

*†D. F. Breazeale, Ph. D., Prof. Dairy Husb.;
Dairyman, Actg. Head of Dept.

*†E. H. Bartle, M. S., Asst. Prof. Dairy Husb.
and Supt. Dairy Herd.
‡R. A. Cave, B. S. Ext. Dairyman.

*†A. E. Dracy, Ph. D., Assoc. Prof. and Dairy

Husb.

‡Allan Goodbary, B. S., Ext. Dairyman. *C. C. Totman, B. S., Assoc. Prof. Dairy Husb.

Economics (Agr.):

*†Max Myers, Ph. D., Head of Dept. ‡A. W. Anderson, M. S., Assoc. Farm Mgt.

Spec. \$\$L. M. Bender, M. S., Farm Mgt. Spec. *†R. L. Berry, M. S., Asst. Prof. and Asst.

Boon.

*A. R. Clark, M. S., Asst. Prof. Econ.

*†Ernest Feder, Ph. D., Asst. Prof. and Asst.

Econ. Econ.
†J. H. Glover, B. S., Asst. Econ. (Mktg.).
†Kristjan Kristjanson, M. Sc. Asst. Econ.
(BAE: Coop. U. S. D. A.).
*†Gabriel Lundy, M. S., Prof. Econ.; Econ.
†Maurice McLinn, Farm Mgt. Fieldman.

Economics (Agr.)—Continued

†C. N. Nanheim, M. S., Econ. (BAE: Coop. U. S. D. A.). *†Ottar Nervik, M. A., Asst. Prof. and Asst.

*S.L. T. Smythe, M. S., Assoc. Prof. Econ.
*P. W. VanVlack, M. S., Asst. Prof. Econ.
*F. A. Wiswall, M. S., Asst Prof. Econ.

Editorial-See Jornalism.

Education (Agr.):

*C. R. Wiseman, Ph. D., Head of Dept. *S. A. Sundet, M. S., Assoc. Prof. Agr. Ed.

Engineering (Agr.):

*†H. H. DeLong, M. S., Head of Dept. ‡E. W. Bjork, B. S., Area Irrig. Spec. †L. J. Erie, B. S., Irrig. Engin. (Coop. U. S.

† M. M. Fogel, M. S., Agr. Engin.
† Lubinus, B. S., Est. Agr. Engin.
† D. L. Moe, M. S., Asst. Agr. Engin.
† J. L. Wiersma, M. S., Asst. Prof. and Asst.

*†G. C. Zoerb, M. S., Asst. Agr. Engin.

Entomology-Zoology:

*H. C. Severin, M. A., Head of Dept. †W. L. Berndt, B. S., Asst. Ent. *R. J. Greb, Ph. D., Asst. Prof. Ent.-Zool. *Nelle A. Hartwig, M. S., Assoc. Prof. Ent.-Zool.

†P. H. Kohler, M. S., Asst. Ent. †J. A. Lofgren, M. S., Asst. Ent. *†W. M. Rogoff, Ph. D., Assoc. Prof. Ent.-Zool.

*†G. B. Spawn, Ph. D., Assoc. Prof. Ent.-Zool.; Assoc. Ent. †Irwin Roberts, Ph. D., Parsit. (BAI: Coop. U. S. D. A.).

Extension Administration:

†G. I. Gilbertson, M. S., Dir. ‡F. F. Collins, B. S., Dist. Ext. Supvr. ‡Ima R. Crisman, B. S., Asst. State Club Leader.

Leader.

Marie Curry, B. S., Asst. in Club Work.

W. E. Dittmer, B. S., Dist. Supvr.

Esther S. Farnham, B. S., Asst. State
Home Dem. Leader.

Carl Ham, B. S., Dist. Club Agt.

IJ. L. Hill, B. S., Dist. Club Agt.

M. G. Hodgson, B. S., State Club Leader.

Martin Kasperson, B. S., Dist. Club Agt.

Mary F. Lyle, B. S., Asst. in Club Work.

Nellie McLoughlin, B. S., Actg. State Home
Dem. Leader. Dem. Leader.

tClarence Shanley, B. S., Program Dir. ‡J. F. Younger, B. S., State Rural Youth Leader.

Home Economics:

*Alice M. Rosenberger, M. S., Actg. Dean of Div., Prof. Home Econ. †Elsie B. Alsup, M. S., Res. Asst. *†Lida M. Burrill, Ph. D., Assoc. Prof. Home

Econ

†Charlotte Bryant, B. S., Agt. at Large.
*Viletta Leite, M. S., Asst. Prof. Home Econ.
*†Lillian Lund, M. S., Asst. Home Econ.
*Laura J. McArthur, M. S., Prof. Home

Econ.

Econ.

*Isabel McGibney, B. S., Home Mgt. Spec.

*Mrs. Elizabeth Pfantz, M. S., Asst. Prof.

Home Econ.

*L. W. Smith, B. S., Ext. Nutr.

*Mrs. Elizabeth C. Wagenaar, M. S., Asst.

Prof. Home Econ.

*Mrs. Anna D. Walker, B. S., Clothing Spec.

*Midred Walker, M. S., Itinerant Teacher

Trainer.

*Helen A. Young, M. A., Assoc. Prof. Child

Development.

Development.

Horticulture and Forestry:

*†S. A. McCrory, M. A., Head of Dept. *†Solomon Cook, Ph. D., Asst. Hort.

Horticulture and Forestry-Continued

‡E. K. Ferrell, B. S., Ext. For. *†M. A. Maxon, M. S., Asst. Hort. ‡John Noonan, B. S., Area Potato Spec. ‡W. H. Snyder, M. S., Ext. Hort.

Journalism (Rural):

*G. H. Phillips, M. S., Head of Dept.

‡Caroline Biggar, Asst. Ext. Editor.

‡John Gerken, Asst. Spec. in Visual Ed.

†Mrs. Marjorie G. King, Bul. Editor.

‡M. A. Potas, Asst. Spec. in Visual Ed.

‡J. M. Ryan, B. S., Ext. Editor.

‡C. W. W. Sorenson, B. S., Asst. Ext. Editor.

Plant Pathology (Sta.).

†C. M. Nagel, Ph. D., Head of Dept. †G. W. Bruehl, Ph. D., Assoc. Path. (Coop. U. S. D. A.).

†Richard Converse, Ph. D., Asst. Plant Path. †L. T. Richardson, Ph. D., Assoc. Plant L. T.

†J. T. Slykhuis, Ph. D., Asst. Plant Path.

Poultry Husbandry:

*†William Kohlmeyer, M. S., Head of Dept. *†B. J. Bonzer, B. S., Asst. Econ. (Mttg.); Field Mgr., S. Dak. Poultry Improve-ment Assoc.

tJ. E. Boyd, B. S., Ext. Poultryman.

Poultry Husbandry-Continued

*†C. W. Carlson, Ph. D., Asst. Prof. and Asst. Poultry Husb. *†D. G. Jones, Ph. D., Assoc. Prof. and Assoc.

Poultry Husb.

Sociology (Rural):

*†W. F. Kumlien, Ph. D., Head of Dept. *Douglas Chittick, M. S., Assoc. Prof. Rural Social

*Marvin Riley, M. S., Asst. Prof. Rural *Marvin Kney, M. S., Assoc. 2.0, Sociol.

*H. M. Sauer, M. S., Assoc. Prof. Rural

Sociol.

Veterinary Science:

*†G. S. Harshfield, D. V. M., M. S., Head of

Dept.
*†T. A. Dorsey, D. V. M., Assoc. Prof. and

Assoc. Vet.

†J. B. Taylor, V. M. D., Assoc. Prof. and
Asst. Vet.

‡G. S. Weaver, V. S., Ext. Vet.

Zoology-See Entomology.

Substations:

Cottonwood—C. B. Larsen, Supt. Eureka—Albert Dittman, Supt. Highmore-W. R. Pringle, Supt.

TENNESSEE

College of Agriculture and Home Economics and the Agricultural Experiment Station of the University of Tennessee, Knoxville 16

*College faculty. †Station staff. ‡Extension staff. Leave of absence. Military leave.

*C. E. Brehm, B. S., D. Sc., President of University.

*†‡J. H. McLeod, M. S., Dean Coll. of Agr., Dir. of Sta., Dir. of Ext.

*N. D. Peacock, Ph. D., Vice Dean Agr. Instr.

*†Jessie W. Harris, A. M., Vice Dean Coll. of Home Econ.

†F. S. Chance, B. S., Vice Dir. of Sta.

†J. A. Ewing, M. S., Asst. Dir. of Sta.

*Paul Meek, M. S., Exec. Officer, Junior Coll. (P. O., Martin).

*†‡J. J. Walker, B. S., Treas.

Agronomy:

Agronomy:

*†‡Erie Winters, Ph. D., Head of Dept. and Chair. of Sect.

*F, F, Bell, M. S., Asst. Prof. Agron.

†W. D. Bishop, B. S., Asst. Agron.

†W. A. Chriesman, Plot Asst.

*L. H. Dickson, B. S., Instr. Agron.

†J. G. Faulkner, Plot Asst.

*W. D. Fisher, M. S., Instr. Agron. (P. O., Martin)

‡G. S. Hollingsworth, Soil Conserv. Spec. (P. O., Nashville).

†J. M. Holt, M. S., Asst. Agron. (P. O., Jackson).

†H. C. Kincer, B. S., Asst. Agron.

*†J. K. Leasure, M. S., Asst. Prof. and Assoc. Agron.

†Webster Pendergrass, M. S., Agron. Spec. †F. D. Richey, Sc. D., Assoc. Agron. (Coop. U. S. D. A.). *†L. F. Seatz, Ph. D., Assoc. Prof. and Assoc.

Agron. †D. M. Simpson, M. S., Assoc. Agron (Coop.

U. S. D. A.).
*†L. N. Skold, M. S., Asst. Prof. and Assoc.

*H. C. Smith, Jr., B. S., Instr. Agron.

†J. K. Underwood, M. S., Asst. Prof. Agron.;

Assoc. Bot. ‡H. W. Wellhausen, M. S., Agron. Spec., Seed Improvement.

Animal Husbandry:

†‡C. S. Hobbs, Ph. D., Head of Dept., Chair. of Sect.

*W. T. Butts, B. S., Instr. An. Husb.

*†C. C. Chamberlain, M. S., Instr. and Asst.

*†C. C. Chamberiain, M. S., Instr. and Asst. An. Husb.

*†J. W. Cole, M. S., Assoc. Prof. and Assoc. An. Husb.

*†C. L. Comar, Ph. D., Prof. Biophysics; Biophysicist (P. O., Oak Ridge).

*†N. H. Dowden, B. S., D. V. M., Assoc. Prof. An. Husb. and Vet. Sci.; Assoc. An. Husb.

*†H. R. Dungen, M. S. Prof. and Assoc. An.

An. Husb. and Vet. Sci.; Assoc. An. Husb.

*†H. R. Duncan, M. S., Prof. and Assoc. An. Husb.

†M. R. Duncan, M. S., Prof. and Assoc. An. Husb.

†M. Griffith, B. S., Asst. An. Husb.

†S. L. Hansard, M. S., Asst. Prof. and Assoc. An. Husb. (P. O., Oak Ridge).

*J. K. Harvey, B. S., Instr. An. Husb. †P. P. Hite, B. S., Asst. Livestock Spec. (P. O., Nashville).

†J. W. Houston, M. S., Asst. Ext. An. Husb. †E. R. Lidvall, Jr., B. S., Instr. An. Husb. †R. P. Moorman, B. S., Asst. An. Husb. †E. G. Morrison, B. S., Asst. An. Husb. †E. G. Morrison, B. S., Asst. An. Husb. *†R. L. Murphree, M. S., Asst. An. Husb. *†R. L. Murphree, M. S., Asst. An. Husb. J. S. Robinson, B. S., Instr. An. Husb. J. S. Robinson, B. S., Instr. An. Husb. Spec. *Maurice Shelton, B. S., Instr. An. Husb. (P. O., Martin).

*†Dennis Sikes, M. S., D. V. M., Prof. Vet. Sci.; Vet. *†H. J. Smith, Ph. D., Assoc. Prof. and Assoc. An. Husb.

Animal Husbandry-Continued

tw. P. Tyrrell, M. S., Assoc. An. Husb. Spec. tJ. L. West, M. S., D. V. M., Assoc. Path. and Parasit.

Bacteriology:

*D. F. Holtman, Ph. D., Head of Dept. *W. B. Cherry, Ph. D., Asst. Prof. Bact. *Gladys Fisher, M. A., Instr. Bact. *D. O. Galloway, M. A., Instr. Bact. *J. O. Mundt, Ph. D., Assoc. Prof. Bact. *A. L. Pollard, C. H. E., Lect.

Botany:

*S. L. Meyer, Ph. D., Head of Dept.

*L. F. Bailey, Ph. D., Assoc. Prof. Bot.

†N. I. Hancock, B. S., Plant Breeder.

*H. N. Mozingo, Ph. D., Instr. Bot.

*F. H. Norris, Ph. D., Asst. Prof. Bot.

*R. E. Shanks, Ph. D., Prof. Bot.

*A. J. Sharp, Ph. D., Prof. Bot.

*A. J. Sharp, Ph. D., Assoc. Prof. Bot.

*J. H. Taylor, Ph. D., Assoc. Prof. Bot.

*C. A. Buehler, Ph. D., Head of Dept.
†W. H. MacIntire, Ph. D., D. Sc., Soil Chem.
*A. N. Campbell, M. S., Assoc. Prof. Chem.
(P. O., Martin).
†Fairy Clapp, B. S., Asst. Chem.
*J. A. Dean, Ph. D., Asst. Prof. Chem.
*J. R. Doran, B. S., Instr. Chem. (P. O., Martin).

*J. R. Doran, B. S., Instr. Chem. (P. O., Martin).

†Mary D. Evans, M. S., Asst. Chem.

*W. H. Fletcher, Ph. D., Asst. Prof. Chem.

†L. J. Hardin, M. S., Assc. Chem.

†D. E. Holmes, M. S., Asst. Gen. Chem.

*E. W. Keenan, Ph. D., Asst. Prof. Chem.

*L. A. King, M. S., Asst. Prof. Chem. (P. O., Martin).

†Helen E. McCoy, B. S., Asst. Gen. Chem.

†LaRue McCrary, B. S., Asst. Chem.

†J. B. McLaren, B. S., Asst. in Chem. (P. O., Columbia).

7J. B. McLaren, B. S., Asst. in Chem. (P. O., Columbia).

*A. D. Melaven, Ph. D., Assoc. Prof. Chem.

*G. P. Mueller, Ph. D., Asst. Prof. Chem.

*Donald Pickens, M. S., Instr. Chem.

*J. H. Robertson, Ph. D., Prof. Chem.

*Brooks Robinson, B. S., Asst. Soil Chem.

*T. P. Salo, Ph. D., Asst. Prof. Chem.

*K. B. Sanders, M. S., Assoc. Gen. Chem.

*G. K. Schwietzer, Ph. D., Asst. Prof. Chem.

*G. A. Shuey, B. S., Gen. Chem.

*H. A. Smith, Ph. D., Prof. Chem.

*H. A. Smith, Ph. D., Prof. Chem.

*W. T. Smith, Jr. Ph. D., Assoc. Prof. Chem.

*A. J. Sterges, M. S., Assoc. Soil Chem.

*Mary E. Tubbs, B. S., Asst. Chem.

*W. W. Weber, Ph. D., Asst. Prof. Chem.

*W. M. Whaley, Ph. D., Asst. Prof. Chem.

*W. M. Whaley, Ph. D., Asst. Prof. Chem.

*J. E. Williams, B. S., Asst. Chem.

*B. H. Winterberg, Ph. D., Assoc. in Soil Chem.

*E. L. Wood, M. S., Instr. Chem.

*E. L. Wood, M. S., Instr. Chem.

*J. H. Wood, Ph. D., Prof. Chem.

*J. W. Woods, Ph. D., Instr. Chem.

†Sarah M. Woods, Ph. S., Asst. Chem.

†J. B. Young, B. A., Asst. Soil Chem.

Dairving:

*†C. E. Wylie, M. A., Head of Dept. *†T. W. Albrecht, Ph. D., Asst. Prof. and Assoc. Dairy Husb.

*H. N. Carringer, M. S., Assoc. Prof. Dairying.

‡C. K. Chappell, B. S., Dist. Dairyman (P. O., Jackson).

‡L. O. Colebank, B. S., Ext. Dairy Spec.

‡Lynn Copeland, M. S., Dist. Dairyman (P. O., Nashville).

*T. B. Harrison, M. S., Prof. Dairying.

*†S. A. Hinton, M. S., Assoc. Prof. and Assoc. Dairy Husb.

‡C. A. Hutton, B. S., Ext. Dairy Analyst.

†R. H. Lush, M. S., Prof. Dairy Husb.; Dairy Husb. Husb.

N. Maddux, M. S., Asst. Dairy Husb. (Coop. U. S. D. A.: P. O., Lewisburg).

Dairying-Continued

Dairying—Continued

‡W. F. Moss, B. S., Dist. Dairyman (P. O., Chattanooga)

*J. R. Nichols, B. S., Instr. Dairy Husb. (P. O., Martin)

*†W. W. Overcast, M. S., Asst. Prof. Dairying; Assoc. Dairy Husb. Tv. D. Parson, B. S., Asst. Dairy Spec.

*G. S. Parsons, M. S., Instr. Dairying.

‡J. B. Peterson, A. M., Dist. Dairy Spec.

*†E. W. Swanson, Ph. D., Assoc. Prof. and Assoc. Dairy Husb.

Economics (Agr.) and Rural Sociology:

Economics (Agr.) and Rural Sociology:

*†‡E. J. Long, Ph. D., Head of Dept. and Chair.

*†C. E. Allred, M. S., Agr. Econ.

‡J. L. Anderson, M. S., Agr. Econ.

‡J. L. Anderson, M. S., Agr. Econ.

*†M. B. Badenhop, M. S., Assoc. Prof. and Asst. Agr. Econ.

†H. J. Bonser, M. S., Assoc. Agr. Econ.

‡F. P. Bowers, B. S., Instr. Agr. Econ.

‡F. M. DeFriese, B. S., Asst. in Soil Conserv.

†M. L. Downen, M. S., Asst. Prof. Agr. Econ.

‡J. L. Fischer, M. S., Asst. Prof. Agr. Econ.

†A. J. Garbarino, M. S., Asst. Agr. Econ.

†W. E. Goble, M. S., Asst. Agr. Econ.

†W. E. Goble, M. S., Asst. Farm Mgt. Spec.

†R. B. Hughes, M. S., Asst. Agr. Econ.

‡A. L. Jerdan, M. S., Mkty. Spec.

†M. E. Jones, B. S., Community Development Spec. (P. O., Nashville).

†B. H. Luebke, M. S., Asst. Prof. Agr. Econ.

†J. A. Martin, M. S., Asst. Prof. Agr. Econ.

†J. A. Martin, M. S., Asst. Prof. Agr. Econ.

†J. A. Martin, M. S., Asst. Prof. Agr. Econ.

†J. A. Martin, M. S., Asst. Prof. Agr. Econ.

†J. A. Martin, M. S., Asst. Prof. Agr. Econ.

†J. A. Martin, M. S., Asst. Prof. Agr. Econ.

†J. A. Martin, M. S., Asst. Prof. Agr. Econ.

†J. A. Martin, M. S., Asst. Prof. Agr. Econ.

Econ.

‡Alex McNeil, B. S., Asst. Soil Conserv. Spec.

†W. P. Ranney, Ph. D., Prof. and Assoc. Agr. †B. D. Raskopf, M. S., Asst. Agr. Econ. †D. M. Thorpe, B. S., Asst. Soil Conserv.

TD. M. Thorpe, B. S., Asst. Soil Uonserv. Spec.

‡F. J. Walrath, Ph. D., Farm Mgt. Spec.

†T. J. Whatley, M. S., Asst. Agr. Econ.

†A. W. Woodard, B. S., Asst. Mktg. Spec.

‡P. W. Worden, B. S., Asst. Soil Conserv. Spec.

Education (Agr.):

*N. E. Fitzgerald, M. S., Dean Coll. of Ed., Prof. Agr. Ed.
*B. S. Wilson, Ed. D., Head of Dept., Prof.

*B. S. Wilson, Ed. D., Head of Dept., Prof. Agr. Ed.

*R. W. Beamer, M. S., Asst. Prof. Agr. Ed.

*A. J. Paulus, Ph. D., Prof. Agr. Ed.

*G. W. Wiegers, Jr., Ed. D., Assoc. Prof. Agr. Ed.

Engineering (Agr.):

Ingineering (Agr.):

*†M. A. Sharp, M. S., Head of Dept.

*†K. L. Hertel, Ph. D., Prof. Phys.; Physicist.

†H. A. Arnold, M. S., Assoc. Agr. Engin.

*R. D. Cook, B. S., Instr. Agr. Engin.

†C. J. Craven, Ph. D., Assoc. Physicist.

‡Max Falkner, B. A., Arch.

‡M. T. Gowder, M. S., Agr. Engin. Spec.

*J. L. Harbison, M. S., Asst. Prof. Phys.

(P. O., Martin).

‡E. B. Hale, B. S., Asst. Rural Electrification Spec. (P. O., Nashville).

‡J. C. Hundley, B. S., Rural Electrification Spec.

Spec. ‡H. B. Jones, Ginning Spec. (P. O., Mem-

†H. B. Jones, Ginning Spec. (P. O., Memphis).

J. O. Jones, B. S., Asst. Prof. Agr. Engin. (P. O., Martin).

†A. L. Kennedy, M. S., Assoc. Agr. Engin. (P. O., Martin).

Reba Lawson, B. S., Asst. in Phys.

†J. B. Liljedahl, M. S., Assoc. Prof. and Assoc. Agr. Engin.

*E. J. Matthews, B. S., Asst. Prof. Agr. Engin.

†A. H. Morgan, B. S., Asst. Arch.

†W. P. Robison, M. S., Asst. Arch.

*W. R. Rusk, M. S., Asst. Prof. Phys.

Engineering (Agr.)-Continued

*G. L. Sadler, M. A., Asst. Prof. Math. and Phys. (P. O., Martin) †D. P. Schwab, B. S., Asst. Agr. Engin. *J. D. Traywick, B. S., Instr. in Agr. Engin. *W. C. Wheeler, B. S., Assoc. Prof. Agr. Engin.

Entomology:

†Simon Marcovitch, Ph. D., Head of Sta.

Dept. *A. C. Cole, Jr., Ph. D., Asst. Prof. Zool. and Ent.

*George Horton, M. S., Assoc. Prof. Biol. Sci. (P. O., Martin)
‡R. P. Mullett, M. S., Ext. Ent. and Plant

Path. †W. W. Stanley, M. S., Assoc. Ent.

Extension Administration:

tension Administration:

J. H. McLeod, M. S., Dir.

E. C. McReynolds, B. S., Assoc. Dir.

R. W. Moore, B. S., Vice Dir.

Lonnie L. Safley, State 4-H Club Leader.

F. W. Colby, B. S., Assoc. Club Leader (P. O., Chattanooga).

G. S. Foster, M. A., Asst. 4-H Spec.

Laubry Scott, B. S., Asst. 4-H Spec.

Florence D. McTeer, Admin. Secy.

Margaret Bacon, B. S., Dist. Agt. (P. O., Cookeville).

Cookevitte). ‡Judd Brooks, B. S., Dist. Agt. (P. O., Jack-

son). son),
Helen Cullens, Dist. Agt. (P. O., Nashville),
C. L. Doughty, B. S., Dist. Agt. (P. O.,
Chattanooga).
B. M. Elrod, Dist. Agt.
A. B. Harmon, B. S., Dist. Agt. (P. O.,
Nashville),
Mildred Jacocks, Dist. Agt. (P. O., Jackson)

*** son. .

‡N. B. Morgan, B. S., Dist. Agt. (P. O., Cookeville).

‡Crosby Murray, A. B., Asst. Dist. Agt. ‡Mary Stanfill, B. S., Dist. Agt. (P. 0., Chattanooga).

Oma Worley, Dist. Agt.

Forestry-See Horticulture.

Geology:

*P. B. Stockdale, Ph. D., Head of Dept.

*H. C. Amick, M. S., Asst. Prof. Geol.

*R. E. L. Collins, Ph. D., Prof. Geol.

*Loyal Durand, Ph. D., Prof. Geol.

*H. E. Edeland, Ph. D., Asst. Prof. Geol.

*H. J. Klepser, Ph. D., Assc. Prof. Geol.

*F. C. Kruger, Ph. D., Asst. Prof. Geol.

*R. G. Long, Ph. D., Asst. Prof. Geol.

*J. G. Walls, Ph. D., Asst. Prof. Geol.

*J. G. Walls, Ph. D., Asst. Prof. Geol.

*Lillian Worley, Ph. D., Asst. Prof. Geol.

Home Economics:

*Idessie W. Harris, A. M., Vice Dean of Coll.
*Ida A. Anders, M. S., Prof. and Head Dept. of Textiles and Clothing.
†Wilbur Armistead, M. S., Crafts Spec.
*Mary R. Armstrong, M. S., Asst. Prof. Foods and Institution Mgt.
*Dorothea Barton, M. S., Assoc. Prof. Textiles and Clothing.
*Christine Beasley, M. Ed., Assoc. Prof. Child Development and Family Relations.
*Ellen J. Biggs, M. S., Assoc. Prof. Nutr.
*SMyra L. Bishop, M. A., Prof. Home Mgt.
*Ruth E. Brennan, M. S., Asst. Prof. Nutr.
*M. Ruth Buckley, A. M., Prof. and Head Dept. of Foods and Institution Mgt.
*Mrs. Mary P. Charlton, M. A., Assoc. Prof. Related Art.
*Middred Craven, B. S., Dietitian, Foods and

*Mildred Craven, B. S., Dietitian, Foods and Institution Mgt.
*Ella J. Day, Ph. D., Prof. Child Develop-

ment. *Lois Dickey, M. S., Instr. in Textiles and

Clothing. *Cora B. Duncan, M. S., Asst. Prof. Nutr.

Home Economics-Continued

*Mary E. Durrett, M. S., Asst. Prof. Child

Development.

†Ruth L. Galbraith, Ph. D., Prof. Textiles and Clothing; Textile Chem.

†Lorna J. Gassett, M. S., Assoc. Prof. Home

Mgt.

*‡Claire E. Gilbert, M. S., Assoc. Prof. Home Econ. Ext.

Maude L. Guthrie, M. A., Foods and Nutr.

**Spec. *Helen L. Hawkins, M. S., Assoc. Prof. Foods (P. O., Martin).

**Marian G. Heard, A. M., Prof. Related Art.

**Ruth L. Huenemann, M. S., Assoc. Prof. Nutr.

**Nutr. S. Lagues, M. S., Asst. Family

†Dorothy S. Jaques, M. S., Asst. Family Econ.

*Jana Jones, M. S., Assoc. Prof. Nutr.

*Mary E. Keister, Ph. D., Prof. and Head
Dept. of Child Development and Family
Relationships.

Lillian L. Keller, B. S., Home Furnishings

Snec.

*Dorothy Knepp, B. S., Dietitian, Foods and Institution Mgt. *Ruth L. List, A. M., Asst. Prof. Child Development.

*Nell P. Logan, M. S., Asst. Prof. Home Econ. Ed.

†Inez Lovelace, M. S., Home Mgt. Spec. *Dorothy E. Lyon, M. S., Asst. Prof. Foods and Institution Mgt. *†Florence L. MacLeod, Ph. D., Prof. and Head Dept. of Nutr. and Asst. Dir. Home Eron Res

Econ. Res. *Lyle M. Mamer, M. S., Assoc. Prof. Home

Mgt. Mannet, M. S., Assot. 1707. Home Mgt.
*Mary M. McClanahan, M. S., Dietitian, Foods and Institution Mgt.
†Bonnie B. McDonald, M. S., Asst. Human

Nutr

Nutr.
*Pearl McHan, B. S., Dietitian, Foods and Institution Mgt.
‡Quinelle McRae, B. S., Clothing Spec.
*†Bernadine H. Meyer, Ph. D., Prof. Foods and Institution Mgt.; Food Econ.
*Dorris W. Milton, M. S., Instr. Child Development, Textiles and Clothing (P. O., Martin). Martin)

*Letty Mitchell, Ph. D., Prof. Home Econ. Ed.

†Ruth Moore, M. S., Asst. Food Econ.
†Elise Morrell, M. S., Asst. Human Nutr.
*Hazel L. Rainbolt, M. S., Asst. Prof. Home
Econ. Ed.

*Sara Robnett, M. S., Instr. Home Mgt.

*Jane R. Savage, M. S., Asst. Prof. Nutr.

*Frances A. Schofield, Ph. D., Prof. Nutr.

*§Mary P. Shelton, M. S., Assoc. Prof. Textiles and Clothing; Textile Chem.

*Henrietta R. Sivyer, M. A., Prof. and Head Dept. of Related Art.

*‡R. A. Slayton, B. S., Assoc. Prof. Related Art.

Art.

Art.

*Jean G. Smith, B. S., Asst. Prof. Textiles and Clothing.

*Elisabeth L. Speer, A. M., Prof. and Head Dept. of Home Mgt.

*Rebecca Springstun, A. M., Asst. Prof. Foods and Institution Mgt.

*Josephine H. Staab, M. A., Prof. Home Mgt.; Family Econ.

*Jean Stange, M. A., Instr. Related Art and Crafts.

Crafts. M. A., Inst. Retuted Art and Crafts.

*Helen Thomas, M. S., Asst. Prof. Textiles and Clothing.

*Sue Upchurch, M. S., Asst. Prof. Textiles

*Sue Upenuren, M. S., and Clothing.
and Clothing.
†Dorothy E. Williams, Ph. D., Human Nutr.
‡Isadora Williams, B. A., Home Mktg. Spec.
*Mary Williams, R. N., Asst. Prof. Home

Horticulture:

*†‡B. S. Pickett, Ph. D., Head of Dept. and Chair. of Sect.

*J. S. Alexander, B. S., Instr. Hort.

Horticulture-Continued

†B. D. Drain, Ph. D., Hort.
*R. C. Anderson, M. S., Asst. Prof. Hort.
‡J. J. Bird, B. S., Assoc. Hort.
‡J. C. Clark, B. S., Dist. Hort. (P. O., Jackson)

*E. H. Clarke, M. S., Assoc. Prof. For. *F. C. Galle, M. S., Asst. Prof. Hort. †T. R. Gilmore, B. S., Assoc. Hort. (P. O.,

*†T. H. Jones, M. S., Assoc. Prof. and Assoc.

Hort. †J. S. Kring, M. S., For. *†J. K. Krum, Ph. D., Asst. Prof. and Assoc.

Hort

Hort.

*J. E. McMahan, M. S., Assoc. Prof. Hort.
and Head Dept. of Agr. (P. O., Martin).

*\$R. E. Ogle, B. S., Asst. Hort.

*W. C. Pelton, M. S., Hort. Spec.

†W. E. Roever, Ph. D., Assoc. Hort. (P. O., Jackson).

‡§J. B. Sharp, Jr., M. S., Dist. For. (P. O., Jackson).

Jackson).

†G. B. Shivery, M. F., Ext. For.

†A. B. Strand, M. S., Assoc. Hort. (P. O., Dandridge).

*†H. D. Swingle, M. S., Asst. Prof. Hort.

‡J. G. Warmbrod, B. S., Asst. Ext. For. (P. O., Larkeen). O., Jackson).

Information:

*†‡A. J. Sims, Ext. Editor and Head of Dept. ‡S. M. Carson, Asst. Ext. Editor in charge Radio Program (P. O., Nashville). *†‡Sarah C. Currell, B. S. in L. S., M. A., Agr.

Libr. †W. N. Dudney, B. S., Asst. Editor and

The North Control of the North

\$S. F. Sweet, B. A., Asst. Ext. Editor.

Plant Pathology:

int Pathology:

†J. O. Andes, Ph. D., Head of Dept.

†J. M. Epps, M. S., Assoc. Plant Path. (P. O., Jackson).

†E. L. Felix, B. S., Assoc. Plant Path.

†H. E. Heggestad, Ph. D., Assoc. Plant Path.

(Coop. U. S. D. A.: P. O., Greeneville).

†D. H. Latham, M. A., Assoc. Plant Path.

(P. O., Springfield).

†H. E. Reed, Ph. D., Assoc. Plant Path.

Poultry:

*†O. E. Goff, Ph. D., Head of Dept. ‡A. J. Chadwell, B. A., Poultry Spec. *†E. O. Essary, M. S., Asst. Prof. and Asst. Poultry Husb. *†B. J. McSpadden, M. S., Assoc. Prof. and

Poultry Husb.

Mountney, M. S., Instr. and Asst. Poultry Husb.

Poultry—Continued

*†Homer Patrick, Ph. D., Prof. Poultry Husb.; Nutr.
‡W. O. Sewell, B. S., Asst. Poultry Spec.
*†R. L. Tugwell, Ph. D., Assoc. Prof. Poultry Husb.; Assoc. Parasit.

UT-AEC Agricultural Research Program (P. O. Box 142, Oak Ridge):

†C. L. Comar, Ph. D., Lab. Dir., Res. Coordinator.

TC. L. Comar, Pn. D., Lab. Dr., Res. dinator.

†J. M. Bird, B. S., Farm Supt.
†D. P. Land, Business Mgr.
†G. A. Boyd, M. S., Senior Sci.
†T. G. Clark, B. A., Lab. Asst.
†W. L. Graf, M. S., Res. Asst.
†W. L. Graf, M. S., Res. Assc.
†S. L. Hansard, M. S., Res. Assoc.
†S. L. Hood, Ph. D., Res. Assoc.
†W. E. Lotz, M. A., Res. Asst.
†J. R. Paysinger, B. S., Res. Asst.
†J. R. Pysinger, B. S., Res. Asst.
†J. H. Rust, D. V. M., Vet. Path.
†G. W. Royster, Jr., B. S., Lab. Asst.
†J. H. Rust, D. V. M., Vet. Path.
†Gladys B. Schneider, D. O., Lab. Asst.
†J. L. Wilding, Ph. D., Senior Sci.

Zoology:

*J. G. Carlson, Ph. D., Prof. and Head of Dept.

*W. K. Baker, Ph. D., Asst. Prof. Zool.

*J. M. Carpenter, Ph. D., Asst. Prof. Zool.

*A. C. Cole, Ph. D., Prof. Ent. and Zool.

*A. C. Cole, Ph. D., Prof. Ent. and Zool.

*J. C. Howell, Ph. D., Asst. Prof. Zool.

*J. C. Howell, Ph. D., Asst. Prof. Zool.

*A. W. Jones, Ph. D., Asst. Prof. Zool.

*F. A. Lawson, Ph. D., Asst. Prof. Zool.

*J. T. Tanner, Ph. D., Prof. Zool.

*J. T. Tanner, Ph. D., Prof. Zool.

*H. L. Ward, Ph. D., Asst. Prof. Zool.

*Frances C. Weldon, B. S., Res. Assoc.

*†J. N. Odom, B. S., Gen. Supt. of Farms. *†E. G. Frizzell, Secy.

Substations:

Dairy Expt. Sta., P. O., Lewisburg— A. G. Van Horn, B. S., Supt. (Coop. U. S. D. A.). Highland Rim Expt. Sta., P. O., Spring-

field—
D. H. Latham, M. A., Actg. Supt.
Lester Weakley, Asst.
Middle Tenn. Expt. Sta., P. O., Columbia—
E. J. Chapman, M. S., Supt.
Plateau Expt. Sta., P. O., Crossville—
J. A. Odom, B. S., Supt.
E. L. Bohanan, B. S., Asst. Supt.
Tobacco Expt. Sta., P. O., Greeneville—
J. H. Felts, B. S. Supt.
West Tenn. Expt. Sta., P. O., Jackson—
B. P. Hazlewood, M. S., Supt.

Tennessee Agricultural and Industrial State College, Nashville 8

*Agricultural faculty.

*W. S. Davis, Ph. D., President. *W. A. Flowers, M. S., Dir. Div. of Agr.

- *O. L. Adams, M. S., Poultry Husb.
 *H. A. Atwater, M. S., Agr. Econ.
 *Hazo Carter, M. S., Oler. and Pomol.
 *W. S. Davis, Ph. D., An. Husb.
 *Spencer Davis, M. S., An. Husb.
 *David Hamilton, M. S., Agr. Ed.
 *H. C. Hardy, B. S., Agron.
 *C. M. Hill, Ph. D., Chem.
 *W. C. Hurley, M. S., An. Husb.
 *R. E. Hurst, M. S., Biochem.
 *H. M. Jones, M. S., Agr. Engin.

- *Cornelius King, M. S., Agr. Econ.
 *Neal McAlpin, M. S., Flor.
 *Marion R. Myles, Ph. D., Agron.
 *W. H. Nickens, B. S., Landse. Arch.
 *M. F. Spaulding, Ph. D., Agron.
 *H. L. Taylor, M. S., Agr. Ed.
 *E. J. Thornton, M. S., Poultry Husb
 *F. E. Westbrooks, M. S., Agron.
 *D. A. Williston, B. S., Hort.
 *T. R. Woods, B. S., An. Husb.

TEXAS

Agricultural and Mechanical College of Texas, the Agricultural Experiment Station, and the Extension Service, College Station

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence.

*†‡Gibb Gilchrist, C. E., D. Sc., Chancellor.

*†‡D. W. Williams, M. S., Vice Chancellor for Agr.

*M. T. Harrington, Ph. D., President.

†R. D. Lewis, Ph. D., Dir. of Sta.

‡G. G. Gibson, M. S., Dir. of Agr. Ext. Service.

*C. N. Shepardson, M. S., Dean School of Agr.

†R. E. Patterson, Ph. D., Vice Dir. of Sta.

*†‡W. H. Holzmann, Commtroller.

*† TW. H. Holzmann, Comptroller.

**A. S. Sheparuson, M. S.,

*†R. E. Patterson, Ph. D.

*†‡W. H. Holzmann, Comp

Agronomy:

*†‡J. E. Adams, Ph. D., Prof. and Head of
Dept. (Coop. U. S. D. A.)

†E. E. Brown, M. S., Asst. State Chem.

†Meta S. Brown, Ph. D., Assoc. Prof.

†R. L. Cheaney, M. S., Asst. Prof.

†‡L. C. Coffey, M. S., Assc. Agron.

*†A. W. Crain, M. S., Asst. Prof.

†Elora W. Dale, B. S., Tech. Asst.

†Jeanne F. DeMottier, Ph. C., Tech.

†R. L. Donahue, Ph. D., Agron.

†Jo Eddleman, B. A., Tech. Asst.

†Jeanne F. DeMottier, Ph. C., Tech.

†R. L. Donahue, Ph. D., Agron.

†Jo Eddleman, B. A., Tech. Asst.

†C. E. Hilott, B. S., Cotton Work Spec.

(Coop. U. S. D. A.).

†Frances L. Fehrmann, Tech. Asst.

†C. E. Ferguson, Ph. D., Assoc. Prof.

*†J. F. Fudge, Ph. D., State Chem. and Prof.

‡P. G. Haines, B. S., Soil and Water Conserv. Spec.

*†H. E. Hampton, Ph. D., Prof.

†Clark Harvey, M. S., Asst. Prof.

†Ethan Holt, M. S., Asst. Prof.

†L. G. Jones, Ph. D., Prof.

†L. G. Jones, Ph. D., Prof.

†L. G. Jones, Ph. D., Assoc. Prof.

†D. T. Killough, M. S., Assoc. Prof.

†D. T. Killough, M. S., Assoc. Prof.

†D. T. E. McAfee, M. S., Assoc. Prof.

†E. S. McFadden, B. S., Prof.

†E. S. McFadden, B. S., Prof.

†L. C. Mowery, B. S., Asst. Prof.

†E. S. McFadden, B. S., Prof.

†L. C. Mowery, B. S., Asst. Agron.

*J. F. Mills, B. S., Instr.

*J. F. Mills, B. S., Instr.

*J. R. Brage, Ph. D., Prof.; in charge Soil Phys. Invest.

†B. Rea, B. S., Assoc. Prof.; in charge Soil Phys. Invest.

†R. G. Reeves, Ph. D., Prof.; in charge Soil Phys. Invest.

†R. G. Reeves, Ph. D., Prof.; in charge Cotton Invest. (Coop. U. S. D. A.).

†T. R. Richmond, Ph. D., Prof.; in charge Soil and Crop Mgt.

†T. R. Richmond, Ph. D., Prof.; in charge Cotton Invest. (Coop. U. S. D. A.).

†J. S. Rogers, Ph. D., Assoc. Prof.

†E. J. Redmond, Tech. Asst.

†J. D. Simpson, B. S., State Soil Sci. (Coop. U. S. D. A.).

†J. S. Rogers, Ph. D., Assoc. Prof.

†E. H. Templin, B. S., Instr.

†M. K. Thornton, M. S., Agr. Chem.

†J. H. Walker, Tech.

†J. L. Witley, M. S., Instr.

†M. L. Wils

Animal Husbandry:

Animal Husbandry:

*†‡J. C. Miller, Ph. D., Prof. and Head of Dept.

*W. W. Albert, M. S., Instr. An. Husb.

*†R. O. Berry, Ph. D., Prof. An. Husb.; in charge Reproduction.

*†O. D. Butler, Jr., M. S., Asst. Prof. Meats.

*T. C. Cartwright, M. S., Instr. An. Husb.

*R. W. Colby, Ph. D., Asst. Prof. Nutr.

*F. I. Dahlberg, M. S., Prof. An. Husb.

*B. R. Dana, M. S., Asst. Prof. An. Husb.

*J. A. Gray, M. S., Ext. Assoc. Prof. Sheep and Goats.

*†Fred Hale, M. S., Prof. in charge Swine.

†M. W. Hozen, B. S., An. Husb. (Coop. U. S. D. A.).

†M. W. Hozen, B. S., An. Husb. (Coop. U. S. D. A.).
†J. H. Jones, B. S., Prof. Feeding Invest.
†J. M. Jones, M. A., Prof. in charge Sheep and Goats.
*J. G. Moffitt, M. S., Instr. An. Husb.
*F. A. Rau, M. S., Instr. An. Husb.
‡E. M. Regenbrecht, M. S., Ext. Prof. Swine.
*†J. K. Riggs, M. S., Assoc. Prof. in charge Beef Cattle.
*G. L. Robertson, M. S., Asst. Prof. An. Husb.

Beel Cattle.

*G. L. Robertson, M. S., Asst. Proj. 2...

Husb.

*J. M. Schrum, M. S., Asst. Prof. An. Husb.

*J. M. Shelton, B. S., Instr. An. Husb.

‡A. L. Smith, B. S., Ext. Prof. Beef Cattle.

‡R. W. Snyder, M. S., Prof. in charge Meats.

‡U. D. Thompson, M. S., Ext. Asst. Prof.

An. Husb.

*W. Warren, M. S., Asst. Prof. An.

Husb. in charge Horses.

Biochemistry and Nutrition:

*†C. M. Lyman, Ph. D., Prof. and Head of

*†C. M. Lyman, Ph. D., Prof. and Head Dept.

*†R. W. Colby, Ph. D., Asst. Prof.

*†R. W. Couch, Ph. D., Prof.

*†R. T. Holman, Ph. D., Assoc. Prof.

*†K. A. Kuiken, Ph. D., Assoc. Prof.

*†Raymond Reiser, Ph. D., Assoc. Prof.

†L. R. Richardson, Ph. D., Prof.

†Hermann Schlenk, Ph. D., Asst. Prof.

Biology:

ology:

*C. C. Doak, Ph. D., Head of Dept.

*S. O. Brown, Ph. D., Assoc. Prof.

*L. S. Dillon, M. S., Instr.

*W. J. Dobson, Ph. D., Asst. Prof.

*T. M. Ferguson, M. S., Asst. Prof.

*L. L. Gee, Ph. D., Prof.

*E. H. Gibbons, M. S., Assoc. Prof.

*H. L. Gravett, Ph. D., Assoc. Prof.

*S. H. Hopkins, Ph. D., Prof.

*S. H. Hopkins, Ph. D., Prof.

*J. F. Mangrum, M. S., Instr.

*John Merkle, Ph. D., Asst. Prof.

*G. E. Potter, Ph. D., Prof.

*C. M. Rowell, M. S., Instr.

*R. B. Rypma, M. S., Instr.

*J. J. Sperry, Ph. D., Assoc. Prof.

Chemistry:

*F. W. Jensen, Ph. D., Prof. and Head of Dept. *J. B. Beckam, B. S., Instr. *C. W. Burchard, M. A., Prof.

```
Chemistry-Continued
              hemistry—Continued

*John Cummings, A. M., Asst. Prof.

*A. O. Frenzel, M. S., Asst. Prof.

*T. H. Haltom, Tech. Asst.

*C. K. Hancock, Ph. D., Prof.

*E. L. Harter, M. A., Assoc. Prof.

*C. C. Hedges, Ph. D., Prof.

*R. B. LeBlanc, Ph. D., Asst.

*D. R. Lee, M. S., Asst. Prof.

*B. H. LeRoy, Ph. D., Prof.

*S. R. McInnis, M. A., Assoc. Prof.

*E. B. Middleton, Ph. D., Prof.

*John Page, Ph. D., Asst. Prof.

*W. M. Potts, Ph. D., Prof.

*R. E. Spriggs, M. S., Assoc. Prof.

*J. B. Speer, Jr., B. S., Instr.

*G. M. Watson, Ph. D., Prof.
                                                                                                                                                                                                                          Engineering (Agr.)—Continued
                                                                                                                                                                                                                                  *R. C. Garrett, M. S., Asst. Prof.

*Price Hobgood, M. S., Prof.

†J. P. Hollingsworth, B. S., Assoc. Agr.

Engin. (Coop. U. S. D. A.).

*R. C. Jaska, B. S., Instr.

‡F. E. Lichte, M. S., Assoc. Prof. (Cotton
                                                                                                                                                                                                                            *R. C. Jaska, B. S., Instr.

‡F. E. Lichte, M. S., Assoc. Prof. (Ginning).

*T. F. Maher, B. S., Instr.

†H. F. Miller, M. S., Asst, Prof.

†P. T. Montfort, B. S., Prof.

*R. L. Patrick, M. S., Asst. Prof.

†H. P. Smith, M. S., A. E., Prof.

†J. W. Sorenson, M. S., Assoc. Prof.

‡W. L. Ulich, M. S., Asst. Prof.

*L. H. Wilkes, B. S., Instr.
                                                                                                                                                                                                                        Entomology:
     Dairy Husbandry:
                                                                                                                                                                                                                         *†‡H. G. Johnston, Ph. D., Prof. and Head of Dept.

†A. H. Alex, B. S., Assoc. Prof. Apiculture.

†R. K. Ashby, Foulbrood Insp.

†U. H. Benson, Foulbrood Insp.

†U. H. Benson, Foulbrood Insp.

†C. J. Burgin, B. S., Chief Foulbrood Insp.

†H. A. Dean, M. S., Asst. Prof. Ent.

†J. A. Deer, M. S., Asst. Eat. Ent.

†J. C. Gaines, Ph. D., Prof. Ent.

†P. A. Glick, B. S., Ent. (Coop. U. S. D. A.).

‡A. C. Gunter, M. S., Assoc. Ext. Ent.

*†R. L. Hanna, B. S., Instr. Ent.

†E. E. Ivy, M. S., Ent. (Coop. U. S. D. A.).

†W. B. Lattimore, B. S., Ent. (Coop. U. S. D. A.).

†W. A. Little, Ph. D., Prof. Ent.

*†D. F. Martin, Ph. D., Assoc. Prof. Ent.

†W. L. Owen, Jr., M. S., Asst. Ent. (P. O., Lubbock).

*†M. A. Price, M. S., Asst. Prof. Ent.

†C. F. Rainwater, B. S., Ent. (Coop. U. S. D. A.).

*†M. A. Price, M. S., Asst. Prof. Ent.
                                                                                                                                                                                                                         *†‡H. G. Johnston, Ph. D., Prof. and Head of
      *†$1. W. Rupel, Ph. D., Prof. and Head of Dept.

*$W. B. Anthony, M. S., Instr.

‡R. E. Burleson, B. S., Assoc. Ext. Dairy-
         †K. E. Burleson, B. S., Assoc. Ewi. Dunyman.

*A. L. Darnell, M. A., Prof.

*†J. S. Huft, M. S., Instr.

*R. E. Leighton, M. S., Assoc. Prof.

‡A. M. Meekma, M. S., Asst. Ext. Dairman.

*†A. V. Moore, Ph. D., Prof. in charge Dairy

Mfg.

*†F. E. Potter, M. S., Instr.

‡S. E. von Rosenberg, B. S., Asst. Ext.

Dairuman.
                             Dairyman.
    Economics and Sociology (Agr.):
       *†L. P. Gabbard, M. S., Prof. and Head of Dept.

*†J. W. Barger, M. S., Prof.

‡C. H. Bates, M. S., Assoc. Prof.

*†C. A. Bonnen, M. S., Prof.

*†C. A. Bonnen, M. S., Prof.

*M. S. Brooks, Ph. D., Assoc. Prof.

*J. R. Campbell, Ph. D., Assoc. Prof.

†R. G. Cherry, M. A., Asst. Prof.

†R. G. Cherry, M. S., Asst. Prof.

†K. A. Fugett, M. S., Assoc. Prof.

†R. B. Halpin, B. S., Assoc. Prof.

†W. F. Hughes, B. S., Agr. Econ. (Coop. U. S. D. A.).

*R. L. Hunt, Ph. D., Prof. Asst. to Dean of
      *†‡L. P. Gabbard, M. S., Prof. and Head of
                                                                                                                                                                                                                          †C. F. Rainwater, D. S., Ent. (Coop. C. S., D. A.).

†H. J. Reinhard, B. S., Prof. Ent.

†A. L. Scales, Field Aid (Coop. U. S. D. A.).

†F. L. Thomas, Ph. D., Prof. and State Ent.

†Bert Warne, Tech.

†Read Wipprecht, B. S., Tech.
                                                                                                                                                                                                                     Extension Administration:
    *R. L. Hunt, Ph. D., Prof. Asst. to Dean of Agr.

Agr.

M. C. Jaynes, Assoc. Prof.

†A. C. Magee, M. S., Assoc. Prof.

†W. C. McArthur, M. S., Asst. Agr. Econ.

‡J. G. McHaney, B. S., Asst. Prof.

†J. G. McNeely, Ph. D., Assoc. Prof.

†Q. M. Morgan, M. S., Asst. Prof.

*†J. R. Motheral, M. S., Assoc. Prof.

*B. H. Nelson Ph. D., Asst. Prof.

*L. S. Paine, M. S., Assoc. Prof.

*L. S. Paine, M. S., Assoc. Prof.

†C. A. Parker, B. S., Asst. Prof.

†W. E. Paulson, Ph. D., Prof.

†R. H. Rogers, M. S., Farm Mgt. Spec.

(Coop. U. S. D. A.).

*†Daniel Russell, M. S., Prof.

†J. H. Southern, B. S., Agr. Econ. (Coop.

U. S. D. A.).

*†T. R. Timm, D. P. A., Prof.

†J. M. Ward, M. S., Asst. Prof.

†J. M. Ward, M. S., Asst. Prof.

†S. N. Williamson, Jr., M. S., Assoc. Prof.
                                                                                                                                                                                                                               ‡G. G. Gibson, M. S., Dir.

‡J. D. Prewit, B. S., Assoc. Dir.

‡W. N. Williamson, M. S., Asst. Dir.

‡E. C. Martin, B. S., State Program Leader.

‡Maurine Hearn, B. S., State Program
                                                                                                                                                                                                                                             Leader.
                                                                                                                                                                                                                              Leaaer.

Gladys Martin, B. S., State Agt.

‡D. L. Weddington, Exec. Asst.

‡J. L. Matthews, M. S., Admin. Asst.

‡G. W. Barnes, B. S., Dist. Agt. (P. O., Ft. Stockton).

‡Leta Bennett, B. S., Dist. Agt. (P. O., Phichmand)
                                                                                                                                                                                                                                            Richmond).
                                                                                                                                                                                                                               ‡Beulah Blackwell, B. S., Dist. Agt. (P. O.,
                                                                                                                                                                                                                              Weslaco).

†Margaret Bracher, M. S., Dist. Agt. (P. O.,
                                                                                                                                                                                                                               Temple).

‡R. G. Burwell, B. S., Dist. Agt. (P. 0., Stephenville).
                                                                                                                                                                                                                              †Thelma Casey, B. S., Dist. Agt. (P. O., San
                                                                                                                                                                                                                             #Rosella R. Cook, B. S., Dist. Agt. (P. O., Nacogdoches).
#Lida Cooper, Dist. Agt. (P. O., Denton).
#Fannie B. Eaton, B. S., Dist. Agt. (P. O., O., Denton).
Editorial-See Publications.
Education (Agr.):
          *E. R. Alexander, M. S., Prof. and Head of
                                                                                                                                                                                                                                          Gonzales).
                                                                                                                                                                                                                             Tourzues).

Bess Edwards, B. S., Dist. Agt. (P. O., Stephenville).

W. I. Glass, Dist. Agt. (P. O., Denton).

Kate A. Hill, B. S., Dist. Agt. (P. O., Lubbock).
         *E. R. Alexander, M. S., 1101. and Dept.
Dept.
*M. N. Abrams, Ph. D., Assoc. Prof.
*G. M. Dansby, B. S., Instr.
*O. M. Holt, M. Ed., Voc. Agr. Super.
*W. W. McIlroy, M. Ed., Asst. Prof.
*Arthur Prince, B. S., Asst. Prof.
*Henry Ross, M. S., Prof.
*E. V. Walton, M. S., Assoc. Prof.
                                                                                                                                                                                                                             ‡Fern Hodge, B. S., Dist. Agt. (P. O., Ver-
                                                                                                                                                                                                                            tw. H. Jones, B. S., Dist. Agt. (P. O., Lubbock).
Engineering (Agr.):
*†‡F. R. Jones, M. S., Prof. and Head of Dept.

‡W. S. Allen, B. S., Asst. Prof. (Bldgs.).

†‡E. H. Bush, B. S., Asst. Prof.

*R. N. Craig, B. S., Asst. Prof.
                                                                                                                                                                                                                           Amarillo).
‡W. I. Marschall, Dist. Agt. (P. O., San
                                                                                                                                                                                                                                         Angelo).
```

‡Mrs. Grace M. Martin, Dist. Agt.

Extension Administration-Continued

‡Ted Martin, B. S., Dist. Agt. (P. O., Wes-

tr. S. Miller, B. S., Dist. Agt. (P. 0., Uvalde).

S. L. Neal, B. S., Dist. Agt. (P. 0., Temple).

†Knox Parr, B. S., Dist. Agt. (P. 0., Ama-

rillo). ‡J. A. Scofield, B. S., Dist. Agt. (P. O., Ver-

non). tMae B. Smith, B. S., Dist. Agt. (P. O.,

 \widetilde{Uvalde}). ‡J. H. Surovik, B. S., Dist. Agt. (P. O., Mt.

Pleasant).

Silver Whitsett, B. S., Dist. Agt. (P. O., Richmond).

*Edith L. Wilson, B. S., Dist. Agt. (P. O., Mt. Pleasant).

†V. G. Young, B. S., Dist. Agt. (P. O., Gon-

‡V. G. You zales).

†Floyd Lynch, B. S., State 4-H Club Leader. †Mildred F. Harris, B. S., Asst. State 4-H Club Leader.

tA. H. Karcher, Jr., B. S., Asst. State 4-H Club Leader. tErma Wines, B. S., Asst. State 4-H Club Leader.

Feed Control Service:

ed Control Service:

†F. D. Brock, Ph. G., Chief.

†M. P. Holleman, Asst. Chief.

†R. G. King, B. S., Feed Insp.

†K. L. Kirkland, B. S., Feed Insp.

†W. T. Nettles, Feed Insp.

†C. C. Perry, M. A., Feed Insp.

†S. D. Reynolds, Jr., Feed Insp.

†H. M. Thompson, Feed. Insp.

†H. G. Wickes, B. S., D. V. M., Feed Insp.

†G. B. Wilson, B. S., Feed Insp.

Floriculture and Landscape Architecture:

*†A. F. DeWerth, M. S., Prof. and Head of Dept.

*N. M. McGinnis, B. S., Prof. *†C. G. Milne, M. S., Asst. Prof. Flor. *W. M. Ruff, M. L. A., Instr. Landsc. De-

*†§R. F. White, B. S., Assoc. Prof. Landsc.

Genetics:

*†C. B. Godbey, M. S., Prof. and Head of Dept.

*H. H. Hadley, M. S., Asst. Prof. *E. P. Humbert, Ph. D., Prof. (Modified Service).

*†R. G. Reeves, Ph. D., Prof. *†R. R. Shrode, Ph. D., Asst. Prof. (Coop. U. S. D. A.).

Home Economics:

Design.

me Economics:
†Jessie O. Whitacre, Ph. D., Prof. and Head
Dept. of Rural Home Res.
‡Bernice Claytor, B. S., Home Mgt. Spec.
†Sylvia Cover, Ph. D., Prof. Home Econ.
‡Bonnie Cox, B. S., Organ. Spec.
†Mary A. Grimes, M. S., Prof. Home Econ.
‡Jimmie N. Harris, M. S., Assoc. Foods and

Nutr. Spec. ‡Sadie Hatfield, M. A., Landsc. Gard. Spec. ‡Eloise T. Johnson, M. A., Family Life Ed. Spec.

**Spec. **
**Florence W. Low, B. S., Home Mgt. Spec. **
**Louise Mason, M. S., Foods and Nutr. Spec. **
**Myrtle Murray, Home Mktg. Spec. **
**Nena M. Roberson, M. S., Assoc. Clothing

Spec.

*Spec. *Spec. *Lary Routh, M. A., Clothing Spec. *Lucille Shultz, B. S., Assoc. Foods and Nutr. Spec. *Myrtis C. Shrode, M. S., Tech. †W. H. Smith, Jr., B. S., Tech. †Gena Thances, B. S., Actg. Asst. Home

Mgt. Spec

†Kathreen Thomas, B. S., Tech.

Horticulture:

*†‡G. W. Adriance, Ph. D., Prof. and Head of

†‡G. W. Adriance, Ph. D., Proj. and Hebert.

††H. T. Blackhurst, Ph. D., Assoc. Prof.

††F. R. Brison, M. S., Prof.

†W. H. Brittingham, Ph. D., Prof.

†R. F. Cain, M. S., Assoc. Prof.

‡B. G. Hancock, B. S., Instr.

‡J. E. Hutchison, M. S., Assoc. Prof.

*A. H. Krezdorn, M. S., Asst. Prof.

†H. C. Mohr, M. S., Asst. Prof.

‡J. F. Rosborough, B. S., Prof.

†T. S. Stephens, M. S., Instr.

Plant Physiology and Pathology:

*†‡G. M. Watkins, Ph. D., Prof. and Head of Dept.
†L. S. Bird, M. S., Instr. Plant Path. (Coop. U. S. D. A.).
*†‡\$A. A. Dunlap, Ph. D., Prof. and Plant

*†‡\$A. A. Dunlap, Ph. D., Fro..

*Path.

†F. M. Eaton, Ph. D., Prin. Plant Physiol.

(Coop. U. S. D. 4.).

†D. R. Ergle, Ph. D., Chem. (Coop. U. S. D. 4.).

*W. C. Hall, Ph. D., Asst. Prof. Plant

*W. C. Physiol.

*†H. E. Joham, Ph. D., Asst. Prof. Plant Physiol. (Coop. U. S. D. A.). *†W. J. McIlrath, Ph. D., Asst. Prof. Plant Physiol. †D. W. Rosberg, Ph. D., Asst. Prof. Plant

†D. W. Rosberg, Ph. D., Asst. Prof. Plant Path.
*†M. D. Whitehead, Ph. D., Asst. Prof. Plant Path.

Poultry Husbandry:

*†‡J. H. Quisenberry, Ph. D., Prof. and Head of Dept. ‡D. R. Barrett, B. S., Asst. Ext. Poultry

†F. Z. Beanblossom, M. S., Ext. Poultry Mitg. Spec.

*†W. E. Briles, Ph. D., Asst. Prof.

*†J. R. Couch, Ph. D., Prof.

*†H. L. German, M. S., Poultry Supvr.

*†H. L. German, M. S., Instr.

†J. R. Grubbs, B. S., Poultry Supvr.

*W. J. Moore, B. S., Assoc. Ext. Poultry Husb.

*†E. D. Parnell, M. S., Prof.

*D. H. Reid, M. S., Prof. (Modified Service).

*†C. B. Ryan, M. S., Asst. Prof.

*†R. M. Sherwood, M. S., Prof.

‡F. M. Stockton, B. S., Asst. Ext. Poultry Mitty, Spec.

Mttg. Spec.
†H. D. Thuem, B. S., Poultry Super.
‡J. C. Williams, B. S., Asst. Ext. Poultry Husb.

Publications:

†Tad Moses, Editor.

†Tad Moses, Editor.

‡L. J. Franke, B. S., Editor.

‡R. B. Hickerson, Radio Editor.

‡Frances L. Arnold, B. S., Asst. Editor.

‡T. W. Bishop, Illustrator, Artist.

‡Frances H. Kivlehen, Asst. Editor, Pubs.

‡J. W. Potts, B. S., Asst. Editor.

‡J. T. Sloan, B. S., Visual Aids Spec.

Range and Forestry:

*†‡V. A. Young, Ph. D., Prof. and Head of

*†R. A. Darrow, Ph. D., Assoc. Prof. *†F. W. Gould, Ph. D., Assoc. Prof. and Curator.

Curator.

*H. F. Heady, Ph. D., Assoc. Prof.

†W. G. McCully, M. S., Asst. Prof.

*R. R. Rhodes, B. S. F., Asst. Prof.

‡C. W. Simmons, M. F., Ext. For.

†O. E. Sperry, Ph. D., Prof.

‡A. H. Walker, M. S., Ext. Range Spec.

*†D. G. Wilson, B. S., Asst. Prof.

Veterinary Medicine:

*† I. B. Boughton, D. V. M., Dean of School.

Veterinary Medicine-Continued

VETERINARY ANATOMY:

*§J. H. Milliff, M. S., D. V. M., Prof. and Head of Dept. *L. W. Gibbs, D. V. M., Instr. *A. A. Price, D. V. M., Instr.

VETERINARY BACTERIOLOGY AND HYGIENE:

*R. C. Dunn, D. V. M., Prof. and Head of

*R. C. Dunn, D. V. M., Proj. and Read of Dept.

† W. A. Boney, Jr., D. V. M., M. S., Assoc. Prof.

*Mrs. R. M. Carpenter, B. S., Tech.

† L. C. Grumbles, D. V. M., Assoc. Prof.

*F. P. Jaggi, Jr., B. S., D. V. M., Prof.

*H. J. Ruebke, D. V. M., Asst. Prof.

VETERINARY EXTENSION: ‡W. C. Banks, D. V. M.

VETERINARY MEDICINE AND SURGERY:

*A. A. Lenert, B. S., D. V. M., Prof. and Head of Dept.

*W. W. Armistead, D. V. M., Prof. Vet. Med. and Surg.

*J. P. Fuller, D. V. M., Instr.

*W. V. Lumb, D. V. M., Asst. Prof. Vet. Med. and Surg.

†H. E. Redmond, D. V. M., Assoc. Prof. Vet. Med. and Surg.

Med. and Surg.

*J. C. Swaim, D. V. M., Instr.

VETERINARY PATHOLOGY:

*H. A. Smith, D. V. M., Ph. D., Prof. and Head of Dept. *§V. B. Robinson, D. V. M., M. S., Prof.

VETERINARY PHYSIOLOGY AND PHARMACOLOGY:

*P. W. Burns, B. S., D. V. M., Prof. and Head of Dept.

VETERINARY RESEARCH:

*†H. Schmidt, B. S., D. V. M., Prof. †T. E. Franklin, D. V. M., Asst. Prof.

VETERINARY PARASITOLOGY:

*†R. D. Turk, D. V. M., M. S., Prof. and Head of Dept.

Wildlife Management:

*W. B. Davis, Ph. D., Prof. and Head of Dept. E. Callender, B. S., Spec. in Wildlife

*F. T. Knapp, B. A., Asst. Prof. *L. W. Wing, Ph. D., Assoc. Prof.

Miscellaneous:

iscellaneous:

*R. A. Houze, B. L. S., Libr.

*Howard Berry, B. S., Dir. Photo and Visual Aids Lab.

*L. C. Eakin, B. S., Farm Supt., Coll. Plantation and Farm Service.

†Chester Higgs, Stat. Recorder.

†Dorothy L. Boyce, Secy. to the Dir.

†E. W. Hooker, Chief Clerk.

†V. E. Schember, M. S., Exec. Asst.

†J. E. Roberts, M. S., Supt. Main Sta. Farm.

Substations:

ostations:

Amarilio (Soil Conserv. Invest.)—
C. J. Whitfield, Ph. D., Project Supvr.
(SCS: Coop. U. S. D. A.).
M. L. Arnold, Agt. (SCS).
R. D. Hamilton, M. S., Asst. Agron.
W. C. Johnson, M. S., Asst. Soil Sci.
(SCS: Coop. U. S. D. A.).
K. B. Porter, M. S., Assoc. Agron.
R. C. Reeder, Agt. (SCS).
N. P. Swanson, B. S., Irrig. Engin.
(SCS).
C. E. Van Doren, B. S., Soil Conserv.
(SCS).

E. Va

Substations-Continued

Angleton (No. 3)— W. F. Turner, B. S., Supt. G. E. Cauthern, D. V. M., M. S., Assoc. Vet.

F. C. Jackson, D. V. M., Assoc. Vet.
M. E. Riewe, B. S., Junior Agron.
L. L. Wade, B. S., Junior Parasit. (Coop.
U. S. D. A.).

Balmorhea (No. 9)—
J. J. Bayles, B. S., Sunt.
T. R. Tips, B. S., Asst. An. Husb. (Coop.
U. S. D. A.).

Beaumont (No. 4—Rice Pasture Expt.
Sta.)—

Sta.)-W. C. I C. Davis, M. S., Supt. (Coop. U. S.

W. C. Davis, M. S., Supt. (Coop. U. S. D. A.).
Fred Allred, B. S., Agr. Engin. (Coop. U. S. D. A.).
H. M. Beachell, M. S., Agron. (Coop. U. S. D. A.).
Frances S. Brite, Tech.
T. S. Brook, M. S., Asst Ent.
J. D. Jennings, Tech. (Coop. U. S. D. A.).
H. A. Kramer, M. S., Agr. Engin. (Coop. U. S. D. A.).
J. B. Moncrief, B. S., Agron. (Coop. U. S. D. A.).

H. A. Kramer, M. S., Agr. Engin. (Coop. U. S. D. A.).

J. B. Moncrief, B. S., Agron. (Coop. U. S. D. A.).

E. C. Tullis. Ph. D., Plant Path. (Coop. U. S. D. A.).

R. M. Weihing, Ph. D., Agron. 'Coop. U. S. D. A.).

R. H. Wyche, B. S., Agron.

Beeville (No. 1)—

R. A. Hall, B. S., Supt.

M. G. Davenport, B. S., Agr. Engin. (Coop. U. S. D. A.).

Gerald Kline, Asst. Agr. Engin. (Coop. U. S. D. A.).

E. M. Neal, B. S., Asst. An. Husb.

Lucas Reyes, Junior Agron.

Bluebonnet Farm, McGregor (No. 23)—

H. O. Hill, B. S., Supt.

S. P. Davis, Wool Mohair Tech.

B. D. Hargrove, M. S., Assoc. Agron.

M. W. Hazen, M. S., An. Husb. (Coop. U. S. D. A.).

B. L. Warwick, D. V. M., Ph. D., An. Husb. and Geneticist (Coop. U. S. D. A.).

Chillicothe (No. 12)—

J. R. Quinby, M. S., Supt. (Coop. U. S.

D. A.).

Chillicothe (No. 12)—
J. R. Quinby, M. S., Supt. (Coop. U. S. D. A.).

D. W. George, M. S., Asst. Agron.
J. C. Stephens, M. S., Agron. (Coop. U. S. D. A.).

College Station (No. 10)—
L. J. McCall (Modified Service), Supvr.

College Station (Main Station Farm)—
J. E. Roberts, M. S., Supt.
D. R. Royder, Tech. Asst.
F. A. Wolters, B. S., Asst. Supt.

Denton (No. 6)—
D. I. Dudley, B. S., Supt.
I. M. Atkins, Ph. D., Agron. (Coop. U. S. D. A.).

J. H. Gardenhire, M. S., Junior Agron.
M. J. Norris, Jr., B. S., Asst. Agron.

Franklin (Hort. Invest. Lab., Milam and Roberton Counties)—

A. Rogers, B. S., Junior Hort., in charge.

Gilmer (Sweet Potato Invest.)— §Ralph Michael, B. S., Assoc. Hort. in charge.

G. A. Buffington, B. S., Asst. Hort.

Gonzales (No. 21)—

J. R. Reed, Jr., M. S., Supt.
H. T. Cartrite, D. V. M., Assoc. Poultry

Path.

Iowa Park (No. 16)— L. E. Brooks, B. S., Supt. V. I. Woodfin, B. S., Junior Hort.

Substations—Continued

Jacksonville (Tomato Disease Invest.)— P. A. Young, Ph. D., Plant Path. in charge.

Enurge.

Kirbyville (No. 22)—

E. D. Cook, M. S., Supt.
R. P. Bates, M. S., Junior Agron.
T. H. Silker, M. S., Silviculturist (Coop.
Texas For. Service).

Lubbock (No. 8)-

Lubbock (No. 8)—
D. L. Jones, Supt.
G. H. Abel, M. S., Agron. (Coop. U. S. D. A.).
John Box, B. S., Asst. Irrig. Engin. (Coop. U. S. D. A.).
E. B. Hudspeth, Jr., M. S., Agr. Engin. (Coop. U. S. D. A.).
R. E. Karper, M. S., Agron.
N. W. Kramer, Ph. D., Asst. Agron.
L. L. Ray, M. S., Asst. Agron.
E. L. Thaxton, Jr., B. S., Junior Agron.
Lufkin (Pasture Invest.)—
W. C. Knapp, B. S., Asst. An. Husb. in charge. charge.

Marfa (Animal Disease Invest.)— P. H. Vardiman, D. V. M., Assoc. Vet. Montague (Fruit Invest.)—

U. A. Randolph, M. S., Assoc. Hort. in charge.

Mt. Pleasant (Dairy Invest.) Mark Buckingham, Dairy Husb.

Nacogdoches (No. 11)—
H. C. Hutson, B. S., Supt.
Prairie View (No. 18)—

G. L. Smith, M. S., Supt. (Coop. P. V. A. & M. Coll.).
O. E. Smith, M. S., Asst. Prof. Agron.
J. C. Williams, M. S., Assoc. Prof. An.
Husb.

Sonora (No. 14)-

O. L. Carpenter, Jr., An. Husb.
W. T. Hardy, D. V. M., Vet.
L. B. Merrill, B. S., Asst. Range Mgt.
D. A. Price, D. V. M., Asst. Vet.

Spur (No. 7)— C. E. Fisher, M. S., Supt. and Agron. C. E. Fisher, M. S., Supt. and Agron.
P. T. Marion, M. S., Asst. An. Husb.
(Coop. U. S. D. A.).
D. W. Young, M. S., Asst. Agron. (Coop.
U. S. D. A.).
Stephenville (No. 20)—
B. C. Langley, M. S., Supt.
T. E. Denman, B. S., Assoc. Hort,
W. E. McCullough, Asst. Agron.

Substations-Continued

Temple (No. 5)—

J. R. Johnston, Ph. D., Supt. (Coop. U. S. D. A.).

J. W. Collier, B. S., Asst. Agron.
R. J. Hervey, M. S., Asst. Plant Path.
E. N. Stiver, Ph. D., Assoc. Agron.
O. J. Tippit, Agr. Atd (Coop. U. S. D. A.).

Tyler (No. 2)—

P. R. Johnson, M. S., Supt.
S. E. Carpenter, B. S., Assoc. Dairy Husb.

N. F. Clapp, Jr., B. S., Junior Plant Path.

Husb.
§N. F. Clapp, Jr., B. S., Junior Plant Path.
H. F. Morris, M. S., Hort.
Weslaco (No. 15)—
W. R. Cowley, B. S., Supt. (Coop. U. S. D. A.).
M. E. Bloodworth, B. S., Asst. Agr.

Engin.

D. A.).
M. E. Bloodworth, B. S., Asst. Agr. Engin.
C. A. Burleson, M. S., Asst. Agron.
H. L. Chada, Ph. D., Ent. (Coop. U. S. D. A.).
W. C. Cooper, Ph. D., Physiol. (Coop. U. S. D. A.).
G. H. Godfrey, Ph. D., Plant Path.
J. L. Hubbard, M. S., Asst. Agron.
E. M. Kroth, Ph. D., Soil Chem. (Coop. Texas Citrus Comn.).
P. W. Leeper, B. S., Junior Hort.
N. P. Maxwell, M. S., Asst. Ent.
P. E. Ross, Ph. D., Engin. Spec. (SCS: Coop. U. S. D. A.).
E. M. Trew, B. S., Assoc. Agron.
G. P. Wene, Ph. D., Ent.
§G. R. Williams, B. S. Tech. Asst.
Winter Haven (No. 19)—
C. H. McDowell, M. S., Supt.
O. H. Calvert, Ph. D., Asst. Plant Path.
F. A. Frank, Ph. D., Asst. Plant Path.
F. A. Frank, Ph. D., Hort.
B. A. Perry, Ph. D., Hort.
B. A. Perry, Ph. D., Hort.
B. H. Richardson, M. S., Asst. Ent.
Yoakum (Tomato Disease Invest.)—
A. L. Harrison, Ph. D., Plant Path. in charge.
H. T. Michael, B. S., Junior Plant Path.
Ysleta No. 17)—
P. J. Lyerly, Ph. D., Supt.
M. D. Bryant, M. S., Asst. Hort.
P. D. Christensen, Ph. D., Asst. Agron.
Q. A. Hare, B. S., Ent. (Coop. U. S. D. A.).
L. W. Noble, B. S., Ent. (Coop. U. S.

D. A.).
L. W. Noble, B. S., Ent. (Coop. U. S. D. A.).
L. S. Stith, M. S., Asst. Cotton Breeder.
N. B. Willey, B. S., Asst. An. Husb.

Prairie View A. and M. College, Prairie View College

*College faculty. ‡Extension staff.

*E. B. Evans, D. V. M., President. *G. L. Smith, M. S., Dir. Div. of Agr.

*O. J. Baker, M. L. S., Libr. *Mollie K. Bradford, M. S., Prof. Foods and Nutr.

*Mur. *Mur. *Murs. Pauline R. Brown, B. S., Dist. Agt. *Mrs. Lillie P. Burns, M. S., Itinerant Teacher Trainer. *J. M. Coruthers, Ph. D., Prof. Agr. Econ. †W. C. David, B. S., State Leader in Ext. *Work.

Delia M. Ellis, M. S., Asst. Prof.

Clothing.
*Pearl E. Foreman, M. S., Instr. Foods and Nutr

*Ruthcelia Lane, M. S., Instr. Clothing.

*Elizabeth C. May, M. S., Dir. Div. of Home-

making.
*E. M. Norris, Ph. D., Prof. Rural Ed.
*A. N. Poindexter, D. V. M., Vet.
*Anne C. Preston, M. A., Asst. Prof. Rural

Ed.

*J. R. Ross, M. S., Instr. Rural Engin. *O. J. Thomas, M. S., Itinerant Teacher

*J. K. Ross, M. S., Ittnerant Trainer.
Trainer.
*W. D. Thomas, M. S., Asst. Prof. Agr. Ed.
*J. C. Williams, M. S., Asst. Prof. An. Husb.
*C. A. Woods, M. S., Health Ed.
*J. J. Woods, M. S., Prof. Poultry Husb.

UTAH

Utah State Agricultural College, the Agricultural Experiment Station, and the Agricultural Extension Service, Logan

*College faculty. †Station staff. \$Leave of absence. ‡Extension staff.

*L. L. Madsen, Ph. D., President.

*†R. H. Walker, Ph. D., Dean School of Agr., Dir. of Expt. Sta.

‡Carl Frischknecht, Ph. D., Dir. of Expt. Service.

†D. A. Broadbent, M. S., Asst. Dir. of Expt. Sta.

‡G. A. Carpenter, M. S., Asst. Dir. of Expt. Service.

*A. J. Morris, M. S., Asst. Dean School of Agr.

*†‡R. E. Berntson, Secy.-Treas.

Agronomy:

Agronomy:

*†D. W. Thorne, Ph. D., Prof. and Head of Dept.

G. T. Baird, M. S., Ext. Agron.

*†W. H. Bennett, M. S., Assoc. Prof. Agron.

†J. W. Carlson, Ph. D., Assoc. Agron. (Coop. U. S. D. A.).

†J. L. Haddock, M. S., Assoc. Soil Technol. (Coop. U. S. D. A.).

†Wesley Keller, Ph. D., Assoc. Agron. (Coop. U. S. D. A.).

*A. G. Kilburn, B. S., Soil Conserv.

†D. C. Linton, B. S., Asst. Soil Technol. (Coop. U. S. D. A.).

*†D. R. McAllister, Asst. Prof. Crops.

†Rex Nielsen, M. S., Instr. Agron.

†S. M. W. Pedersen, M. S., Agt. (Coop. U. S. D. A.).

*†D. W. Pittman, M. S., Agt. (Coop. U. S. D. A.).

*†B. B. Peterson, Ph. D., Prof. Soils.

†G. L. Stoker, M. S., Asst. Prof. Agron.

†J. P. Thorne, M. S., Asst. Prof. Agron.

†J. P. Thorne, M. S., Asst. Soil Technol. (Coop. U. S. D. A.).

†F. L. Timmons, M. S., Agron. (Coop. U. S. D. A.).

*†D. C. Tingey, M. A., Prof. Agron.

†F. L. Timmons, M. S., Ayron. (Coop. C. S. D. A.).

*†D. C. Tingey, M. A., Prof. Agron.
†D. F. Trussell, B. S., Soil Technol. (Coop. U. S. D. A.).
†R. D. Webber, B. S., Asst. Agron. (Coop. U. S. D. A.).
†LeMoyne Wilson, M. S., Asst. Agron.
†R. W. Woodward, Ph. D., Assoc. Agron. (Coop. U. S. D. A.).

Animal Husbandry:

*†J. A. Bennett, M. S., Prof. and Head of Dept. ‡§Marden Broadbent, B. S., Asst. Ext. An.

Husb.

Husb.

†A. C. Esplin, M. S., Ext. An. Husb.

†L. E. Harris, Ph. D., Prof. An. Husb. and
Chair. Institute of Nutr.

†G. R. Henderson, M. S., Ext. An. Husb.

†\$M. A. Madsen, M. S., Asst. Prof. An. Husb.

†D. J. Matthews, B. S., Instr. An. Husb.

*Hyrum Steffen, B. S., Asst. Prof. An. Husb.

†D. O. Williamson, B. S., Res. Asst. An.

Husb †D. O. V

Bacteriology and Public Health:

*†W. W. Smith, Ph. D., Prof. and Head of *†L. W. Jones, M. S., Assoc. Prof. Bact.

Botany and Plant Pathology:

*†B. L. Richards, Ph. D., Prof. and Head of

†B. L. Kichara, Dept.
Dept.
*W. S. Boyle, Ph. D., Assoc. Prof. Bot.
†O. S. Cannon, Ph. D., Plant Path. (Coop.
U. S. D. A.).
†G. W. Cochran, Ph. D., Assoc. Prof. Plant

*†A. H. Holmgren, M. S., Assoc. Prof. Bot. and Plant Path.

*R. J. Shaw, M. S., Instr. Bot.

†B. N. Wadley, Ph. D., Assoc. Plant Path.

(Coop. U. S. D.A.).

*†F. B. Wann, Ph. D., Prof. Plant Physiol.

Chemistry:

*R. L. Hill, Ph. D., Prof. Chem.

*R. L. Hill, Ph. D., Prof. Chem.

*ST. M. Burton, M. A., Assoc. Prof. Chem.

*M. C. Cannon, Ph. D., Asst. Prof. Chem.

*L. W. Clark, Ph. D., Asst. Prof. Chem.

*j.D. A. Greenwood, Ph. D., Prof. Biochem.

*Sigrid S. Kennington, M. S., Instr. Chem.

*\$Aubrey Lawrence, M. S., Asst. Prof. Chem.

*Sherwin Maeser, Ph. D., Prof. Chem.

*Faye Y. Moser, M. S., Instr. Chem.

*H. O. Van Orden, M. S., Assoc. Prof. Chem.

Dairy Husbandry and Manufacturing:

Jary Husbandry and Manutacturing:

†‡G. B. Caine, M. A., Prof. and Head of Dept.

†G. Q. Bateman, B. S., Assoc. Prof. Dairy
Husb. and Supt. Dairy Expt. Farm.

†D. L. Bassett, B. S., Dairy Engin. (Coop.
U. S. D. A.).

*‡L. R. Hunsaker, M. S., Assoc. Prof. and
Est. Dairy Husb.

*P. B. Larsen, M. S., Assoc. Prof. Dairy Mfg.

*‡A. J. Morris, M. S., Prof. Dairy Mfg.

‡L. H. Rich, M. S., Ext. Dairyman.

Economics (Agr.) and Marketing:

*†‡W. P. Thomas, Ph. D., Prof. and Head of Dept

*†R. H. Anderson, Ph. D., Assoc. Prof. Agr. Econ.

*T. R. Black, M. S., Asst. Prof. Sociol.

*†G. T. Blanch, Ph. D., Prof. Agr. Econ.

*†D. A. Broadbent, M. S., Prof. Agr. Econ.

*†S. K. Christensen, B. S., Asst. Prof. Agr. Econ.

*Mrs. Carmen D. Frederickson, M. S., Asst.

*MIRS. CARMEN D. FIEDERICKSON, M. S., ASSL. Prof. Sociol.

†R. H. Hochmuth, M. S., Asst. Agr. Econ. (Coop. U. S. D. A.).

†§V. L. Israelsen, Ph. D., Prof. Agr. Econ. †§V. Lamborn, Ph. D., Asst. Prof. Agr. Econ

Econ. ‡Leon Michaelson, Ext. Mktg. Spec. †E. M. Morrison, M. S., Assoc. Prof. Agr.

*†E. M. Econ. †L. A. Reuss, M. S., Agr. Econ. (Coop. U. S.

†L. A. Reuss, M. S., Ayr. Loon.
D. A.).

††R. W. Roskelley, Ph. D., Prof. and Head
Dept. Sociol.
C. J. Skidmore, Ed. D., Asst. Prof. Sociol.
J. N. Symons, Ph. D., Prof. Sociol.
Th. H. Taylor, M. S., Ext. Livestock Mktg.

Spec. ‡Ramon Wilson, Ph. D., Ext. Agr. Econ.

Editorial:

*Carlton Culmsee, Ph. D., Prof. Journalism. †Mrs. Gladys L. Harrison, A. B., Sta. Editor. *J. J. Stewart, B. S., Asst. Prof. Journalism.

Engineering:

*J. E. Christiansen, M. C. E., Prof. and Dean of School.
†W. C. Barrett, C. E., Irrig. Engin. (Coop. U. S. D. A.).
‡G. H. Bingham, B. S., Irrig. Spec.
*A. A. Bishop, M. S., Assoc. Prof. Irrig. and Death of the Professional

Drainage.

†G. D. Clyde, M. S., *Irrig. Engin.* (Coop. U. S. D. A.).
*‡Joseph Coulam, B. S., *Agr. Engin.*

Engineering-Continued

*S. H. Daines, B. S., Assoc. Prof. Agr. Engin.
*E. A. Dionne, B. S., Instr. Civil Engin.
*B. I. Embry, M. S., Asst. Prof. Agr. Engin.
*M. J. Greaves, M. C. E., Assoc. Prof. Civil

Engin.
†Vaughan Hansen, Ph. D., Asst. Prof. Irrig.
(Coop. U. S. D. A.).
*†O. W. Israelsen, Ph. D., Prof. Irrig. and Drainage.

Drainage.

*H. R. Kepner, C. E., M. S., Prof. Engin.

†C. W. Lauritzen, Ph. D., Soil Sci. (Coop.
U. S. D. A.).

†J. H. Maughan, M. S., Irrig. Engin. (Coop.
U. S. D. A.).

*†C. H. Milligan, M. S., Prof. Agr. Engin.

*William Mortimer, M. S., Prof. Indus. Ed.

†G. L. Pearson, M. S., Irrig. Engin. (Coop.
U. K. D. A.)

*William Mortiner, M. S., Proj. Indus. Eu. fG. L. Pearson, M. S., Irrig. Engin. (Coop. U. S. D. A.).
†W. W. Rasmussen, B. S.. Asst. Soil Sci. (Coop. U. S. D. A.).
*E. M. Stock, M. S., C. E.. Prof. Civil Engin.
*W. A. Tingey, B. S., Asst. Prof. Civil Engin.
*J. D. Wadsworth, B. S., Asst. Prof. Forg-

ing. K. Watkins, S. M., Asst. Prof. Civil *R. K. Engin.

Entomology-See Zoology.

Extension Administration:

‡Carl Frischknecht, Ph. D., Dir. ‡G. A. Carpenter, M. S., Asst. Dir. County Services.

‡Thelma Huber, M. S., Ext. Supvr. Home

Econ. Programs.

‡L. G. Noble, Ed. D. Ext. Supvr. Non-Resident Study Courses.

‡David Sharp, Jr., B. S., State 4-H Club Leader.

tFern Shipley, M. A., Asst. State Boys' and Girls' Club Leader.

Forestry and Range Management:

*L. M. Turner, Ph. D., Dean of School. *C. M. Bowen, M. S., Assoc. Prof. For. Mgt. †C. W. Cook, Ph. D., Assoc. Prof. Range *†C. W. Cook, Ph. D., Assoc. 1....

Mgt.

*T. W. Daniel, Ph. D., Prof. Silviculture.

*J. W. Floyd, M. S., Prof. For. and Head of

*G. H. Kelker, M. S. F., D. Sc., Prof. Wildlife Mgt.

*‡C. B. Koch, M. S., Instr. For. and Ext. For.

*J. B. Low, Ph. D., Assoc. Prof. Wildlife Mgt. (Coop. U. S. D. I.).

†J. L. Mielke, Ph. D., For. Path. (Coop. U. S. D. A.).

‡\$R. R. Moore, M. S., Assoc. Prof. For. Mgt. Fim. E. Robinson, M. S., Asst. Prof. Range Mgt. (P. O., Cedar City).

*W. M. Sigler, Ph. D., Prof. Wildlife Mgt. and Head of Dept.

*†A. D. Smith, M. S., Assoc. Prof. Range Mgt.

Mgt.

*†L. A. Stoddart, Ph. D., Prof. Range Mgt. and Head of Dept.

Geology:

*J. S. Williams, Ph. D., Prof. and Head of Dept

*Clyde Hardy, B. S., Asst. Prof. Geol.

Home Economics:

*Mrs. Ethelyn O. Greaves, Ph. D., Dean of School, Prof. Foods and Nutr. *Marion Aikin, M. S., Instr. Child Devel-

opment.

opment.
†Marjorie P. Bennion, M. S., Asst. Prof.
Home Econ.
*Oretta M. Carlson, B. S., Instr. Home Econ.
*Helen L. Cawley, M. S., Assoc. Prof. Home Econ

‡Mrs. Rhea H. Gardner, M. S., Home Furnishing Spec.
*Florence L. Gilmore, M. S., Asst. Prof. Textiles and Clothing.
‡Elna Miller, M. S., Ext. Nutr.

Home Economics-Continued

*Edna Page, M. A., Assoc. Prof. Foods.
*Mignon Perry, M. S., Asst. Prof. Textiles
and Clothing.
*Helen Porter, M. S., Asst. Prof. Child De-

velopment.
*Oral Pugmire, B. S., Instr. Child Develop-

*Priscilla Rowland, M. S., Asst. Prof. Foods

and Nutr. ‡Mrs. Ruth P. Tippets, B. S., Consumer Ed.

Ext. Spec. *Una Vermillion, M. A., Prof. Institutional

Mgt.
*Bertha J. Waldee, M. S., Prof. Textiles and Clothing

*†Ethelwyn B. Wilcox, Ph. D., Prof. Nutr.

Horticulture:

Horticulture:
*†S. W. Edgecombe, Ph. D., Prof. and Head of Dept.
*†L. H. Pollard, Ph. D., Prof. and Head Dept. of Vey. Crops.
*‡L. S. Morris, M. L. A., Prof. and Head Dept. of Landsc. Arch.
‡E. M. Anderson, Ph. D., Ext. Spec. Veg. Crops.
‡C. D. Ashton, B. S., Ext. Hort.
*†J. C. Ballard, B. S., Asst. Prof. Veg. Crops.
†A. E. Clarke, Ph. D., Assoc. Cytologist (Coop. U. S. D. A.).
*[R. K. Gerber, M. S., Asst. Prof. Hort.
†L. R. Hawthorn, M. S., Assoc. in Veg. Crops (Coop. U. S. D. A.).
†O. C. Kirk, B. S., Supt. Ogden Substa.
†M. P. Leonard, Supt. Farmington Substa.
*Kenji Shiozawa, M. S., Instr. Landsc. Arch.

Physics:

*†Rolland Perry, Ph. D., Prof. and Head of

Dept.

*P. J. Hart, Ph. D., Assoc. Prof. Phys.

*J. O. Jensen, B. S., Instr. Phys.

Poultry Husbandry:

†C. I. Draper, Ph. D., Prof. and Head of Dept.
†J. W. Herring, B. S., Supt. Poultry Farm.
*W. R. Jenkins, M. S., Asst. Prof. and Ext.
Poultryman.

*†A. B. Stephenson, Ph. D., Asst. Prof. Poultry Husb.

Veterinary Science:

*†Wayne Binns, B. S., D. V. M., Prof. and Head of Dept.

†P. V. Christoffersen, D. V. M., Asst. Prof.

*†M. L. Sci. (P. O., Provo).

*†M. L. Miner, B. S., D. V. M., Assoc. Prof. Vet. Sci.

*†H. M. Nielsen, M. S., Asst. Prof. Vet. Sci.

Zoology, Entomology, and Physiology:

*†D. M. Hammond, Ph. D., Prof. and Head

*†D. M. Hammond, Ph. D., Prof. and Head of Dept.

*T. L. Bahler, Ph. D., Asst. Prof. Physiol.

†Clyde Biddulph, Ph. D., Prof. Physiol.

†G. E. Bohart, Ph. D., Asst. Ent. (Coop. U. S. D. A.).

†H. E. Dorst, M. A., Assoc. Ent. (Coop. U. S. D. A.).

*E. J. Gardner, Ph. D., Prof. Zool.

*M. H. Gunnell, M. S., Asst. Prof. Zool.

*M. H. Kaloostian, M. S., Assoc. Ent. (Coop. U. S. D. A.).

†G. F. Knowlton, Ph. D., Prof. Ent.

†M. D. Levin, M. S., Asst. Ent. (Coop. U. S. D. A.).

*F. V. Lieberman, B. S., Assoc. Ent. (Coop. U. S. D. A.).

*G. A. Linford, M. S., Instr. Zool.

†W. P. Nye, M. S., Asst. Ent. (Coop. U. S. D. A.).

†W. E. Peay, M. S., Asst. Ent. (Coop. U. S. D. A.).

†W. E. Peay, M. S., Asst. Ent. (Coop. U. S. D. A.).

D. A.).
†S. J. Snow, B. S., Asst. Ent. (Coop. U. S. D. A.).

Zoology, Entomology, and Physiology-Con.

- *†C. J. Sorenson, M. S., Prof. Ent. *J. S. Stanford, Ph. D., Assoc. Prof. Zool. iН.
 - and Ent.
 . F. Thornley, M. S., Agt. (Coop. U. S. D. A.).

Miscellaneous:

†D. A. Burgoyne, M. S., Asst. to Dir.

†B. H. Crandall, M. S., Dir. Stat. Lab.

†R. R. Brought, Stat. Lab.

‡V. H. Gordon, M. S., Ext. Recreation Spec.

*King Hendricks, Ph. D., Libr.

VERMONT

College of Agriculture and the Agricultural Experiment Station of the University of Vermont and State Agricultural College, Burlington

*College faculty. †Station staff. ‡Extension staff.

- *†‡W. S. Carlson, Ph. D., LL. D., President of University.
 *†‡J. E. Carrigan, M. A., LL. D., Dean Coll. of Agr., Dir. of Sta., Dir. Agr. Ext. Service
- *† P. R. Miller, M. S., Assoc. Dean Coll. of Agr., Assoc. Dir. of Sta., Assoc. Dir.
- Ext. Service.

 *†E. M. Root, B. S., Asst. to Dean Coll. of Agr., Asst. to Dir. of Sta., Asst. to Dir. Agr. Ext. Service. *†‡L. R. Kelley, Treas.

Agronomy:

†A. R. Midgley, Ph. D., Agron. *†J. B. Kelly, M. S., Asst. Prof. and Asst.

- Agron.
 †‡L. H. Smith, M. S., Asst. and Ext. Agron.
 ††K. E. Varney, M. S., Asst. Prof. and Asst.
- *†G. W. Wood, Ph. D., Assoc. Prof. and Assoc. Agron.

Animal and Dairy Husbandry:

- *†W. H. Riddell, Ph. D., Prof. An. and Dairy Husb.; An. and Dairy Husb. *†H. V. Atherton, M. S., Instr. and Asst. in

- Husb.; An. and Dairy Husb.

 *†H. V. Atherton, M. S., Instr. and Asst. in Res.

 *†Alec Bradfield, M. S., Assoc. Prof. and Assc. in Dairy Mfrs.

 †O. M. Camburn, M. S., Assoc. An. and Dairy Husb., Dir. Short Courses and Ed. Conferences.

 ‡W. A. Dodge, B. S., Dairyman.

 *†Robert Fitzsimmons, M. S., Instr. and Asst. in Dairy Prod.

- *TROPET FITZSIMMODS, M. S., Instr. and Asst. in Dairy Prod.

 †J. M. Frayer, M. S., Assoc. Dairy Bact.

 ‡W. P. Leamy, B. S., Asst. Dairyman.

 *†J. A. Newlander, Ph. D., Prof. Dairy Husb.;
 Assoc. An. and Dairy Husb.

 *†R. E. Reed, B. S., Instr. and Asst. in Dairy
- Mfrs.

Animal Pathology:

- *†‡W. D. Bolton, D. V. M., M. S., Asst. Prof. and Asst. An. Path. *†W. B. Durrell, D. V. M., M. S., Asst. Prof. and Asst. An. Path.

Biochemistry (Agr.):

- *†J. E. Little, Ph. D., Assoc. Prof. and Biochem.
 †C. H. Jones, M. S., Chem.
 L. S. Walker, B. S., Chem. (Related Serv-
- totes).
 E. F. Boyce, B. S., Asst. Chem. (Related Services).
 *†M. W. Foote, M. S., Instr. and Asst. Chem.
 †D. B. Johnstone, Ph. D., Asst. Prof. and
- Microbiol. Mrs. Anna S. Lutman, Ph. B., Seed Analyst

(Related Services).

Botany:

- *†J. W. Marvin, Ph. D., Prof. Bot.; Plant Physiol. *E. J. Dole, Ph. D., Assoc. Prof. Bot. *†Alexander Gershoy, Ph. D., Prof. Bot.;
- Geneticist.
- *Louise A. Raynor, Ph. D., Asst. Prof. Bot. †Thomas Sproston, Jr., Ph. D., Assoc. Prof. Bot.; Plant Path. †F. H. Taylor, Ph. D., Assoc. Prof. Bot.;
- Plant Morphol.

Economics (Agr.):

- *†‡T. M. Adams, Ph. D., Prof. Agr. Econ.; Agr.
- †‡T. M. Adams, Ph. D., Proj. Agr. Econ.; Agr. Econ.
 *†R. M. Carter, Jr., Ph. D., Assoc. Prof. Agr. Econ.; Rural Sociol.
 ‡V. R. Houghaboom, M. S., Asst. Agr. Econ.
 *†R. P. Story, M. S., Asst. Prof. and Asst. Agr. Econ.
 †R. H. Tremblay, M. S., Asst. Agr. Econ.

Editorial:

- †‡J. W. Spaven, B. S., Editor. ‡M. Jeanne Wallerius, B. S., Asst. Editor. ‡Kathleen B. Webb, B. S., Asst. Editor.

Education (Agr.):

*C. D. Watson, M. Ed., State Supvr. Agr. Ed. *J. E. Woodhull, M. S., Teacher Trainer Agr. Ed.

Engineering (Agr.):

- *†E. C. Schneider, M. S., Assoc. Prof. and Agr. Engin.

 *‡B. A. Jones, Jr., M. S., Asst. Prof. and Asst. Agr. Engin.

Extension Administration:

- Extension Administration:

 ‡J. E. Carrigan, M. A., LL. D., Dir.

 ‡P. R. Miller, M. S., Assoc. Dir.

 ‡E. M. Root, B. S., Asst. to Dir.

 ‡R. P. Davison, B. S., M. Ed., State Agr.

 Agt. Leader.

 *††Marguerite J. Doheny, B. S., Admin. Asst.

 *tMarjorie E. Luce, B. S., Asst. Prof. and

 State Home Dem. Leader.

 ‡J. D. Merchant, B. S., State Club Leader.

 ‡M. Pauline Rowe, B. S., Asst. State Club

 Leader.
 - Leader.

Farm:

- E. M. Root, B. S., Farm Supt. (Related Services). M. C. Can C. Canedy, Farm Foreman (Related
 - Services).

Forestry:

- *†W. R. Adams, Jr., Ph. D., Prof. For.; For. ‡R. T. Foulds, Jr., B. S., Ext. For. *†F. S. Hopkins, Jr., M. F., Asst. Prof. and Asst. For.

Home Economics:

- *†Florance B. King, Ph. D., Prof. Home Econ.; Nutr.
 †Marianne Muse, M. S., Home Econ.
 *Florence E. Bailey, M. S., Assoc. Prof. Home Econ.

 - Charlotte A. Beatty, B. S., Home Mgt.
 - Spec. *Helen E. Beresford, M. A., Prof. Home
 - Econ.

Home Economics—Continued

*Helen I. Brown, M. S., Instr. Home Econ. *Marion H. Brown, M. S., Instr. Home Econ. and Teacher Trainer Homemaking Ed. *Ruth L. Godfrey, M. S., Assoc. Proj. Home

Econ

*Helen Finnegan, M. S., State Supvr. Home-making Ed. *Esther L. Knowles, M. S., Asst. Prof. Home

Econ.

†Susan B. Merrow, M. Ed., Asst. Nutr. *Mrs. Meta B. Metze, B. S., Instr. Home Econ.

*Eleanor Rockwood, B. S., Instr. Home Econ.*Mrs. Ruth G. Rohde, B. S., Instr. Home

Econ.

*Viola Russell, M. D., Lect. Home Econ.

‡M. June Williams, M. A., Clothing Spec.

Home Economics-Continued

*Selina Williams, M. S., Instr. Home Econ. ‡Anna M. Wilson, M. S., Nutr. Spec.

*†‡C. H. Blasberg, M. S., Assoc. Prof. and Hort.

*‡C. L. Calahan, M. S., Instr. and Ext. Hort.

*†R. J. Hopp, M. S., Asst. Prof. and Asst. Hort.

*†‡E. P. Hume, M. S., Asst. Prof. and Orna-mental Hort.

Poultry Husbandry:

*†‡D. C. Henderson, M. S., Assoc. Prof. Poul-

try Husb.; Poultryman. †‡H. C. Whelden, Jr., B. S., Asst. Poultryman.

VIRGINIA

Virginia Polytechnic Institute and the Agricultural Experiment Station, Blacksburg

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence. ||Military leave.

*W. S. Newman, Ph. D., President.
*J. R. Hutcheson, M. S., D. Sc., Chancellor.
‡H. N. Young, Ph. D., Dir. of Sta., Actg. Dean School of Agr.
‡L. B. Dietrick, M. S., Dir. of Agr. Ext. Div.
†C. H. Duncan, Asst. to Dir. of Sta.
*H. J. Dekker, B. S., Treas.

Agronomy:

Agronomy:

*†‡H. L. Dunton, Ph. D., Head of Dept.
†R. E. Blaser, Ph. D., Agron.
*C. S. Coleman, B. S. F., Asst. Agron.
†H. E. Dailey, Asst. in Agron.
†P. H. DeHart, M. S., Ext. Agron.
†C. F. Genter, Ph. D., Agron.
†E. F. Henry, B. S., Asst. Agron.
†M. S. Kipps, M. S., Asst. Agron.
†J. A. Lutz, M. S., Asst. Agron. (Coop. U. S. D. A.).
†G. R. Mathews, B. S., Assoc. Ext. Agron.
†W. W. Moschler, M. S., Asst. Agron. (Coop. U. S. D. A.).

*J. D. Pendleton, Ph. D., Agron. (Coop. U. S. D. A.).

*J. D. Pendleton, Ph. D., Agron.
†C. I. Rich, M. S., Asst. Agron.
†A. G. Sherrell, B. S., Asst. Agron.
†A. G. Sherrell, B. S., Asst. Agron.
†T. J. Smith, Ph. D., Agron.
†T. J. Smith, Ph. D., Agron.
†T. M. Starling, M. S., Asst. Agron.
†T. M. Starling, M. S., Assoc. Agron.
†R. K. Stivers, Ph. D., Assoc. Agron.
†W. C. White, B. S., Assoc. Agron.

Animal Husbandry:

*†R. E. Hunt, M. S., Head of Dept. and An. Husb.

**R. E. Hunt, M. S., Head of Dept. and An. Husb.

**D. B. Allen, B. S., Instr. An. Husb.

†*D. E. Brower, B. S., Assoc. An. Husb.

†*R. C. Carter, M. S., An. Husb. (Coop. U. S. D. A.).

**J. S. Copenhaver, B. S., Asst. Prof. An. Husb.

†*M. L. Dalton, B. S., Ext. Assoc. An. Husb.

**R. A. Edgar, M. S., Asst. Prof. An. Husb.

†*C. M. Kineaid, Ph. D., An. Husb.

†*C. M. Kineaid, Ph. D., An. Husb.

†*A. T. Lassiter, Jr., B. S., Assoc. An. Husb.

†*G. W. Litton, M. S., Ext. Assoc. An. Husb.

†*C. C. Mast, B. S., Assoc. Ext. An. Husb.

†*E. M. Priode, Assoc. Ext. An. Husb.

†*Front Royal').

†*H. R. Thomas, B. S., Asst. An. Husb.

Biology:

*I. D. Wilson, D. V. M., Ph. D., Prof. Biol. †W. J. Schoene, Ph. D., Ent. *J. M. Adams, B. S., Instr. Biol. *J. J. Aulbach, M. F., Asst. Prof. For.

Biology-Continued

†R. M. Batchelder, B. S., D. V. M., Assoc.

†R. M. Battheract, D. C., 2.

*An Path.

*†W. B. Bell, M. S., D. V. M., Prof. Biol.

†M. L. Bobb, Ph. D., Assoc. Ent. (P. O., Charlottesville).

†C. M. Boush, B. S., Asst. Ent. (P. O.,

†C. M. Boush, B. S.,

Holland),
†L. R. Cagle, B. S., Asst. Ent.
*Betty V. Conner, M. S., Asst. Prof. Biol.
*H. T. Cox, Ph. D., Assoc. Prof. Biol.
*C. F. DeLaBarre, Ed. D., Prof. Widdife

†C. B. Dominick, M. S., Asst. Ent.
†J. W. East, M. F., Asst. Ext. For.
*S. J. R. Gamble, Jr., B. S., Instr. Biol.
†C. E. Gill, M. F., Assoc. Ext. For.
*S. E. Gordon, M. S., Asst. Prof. Biol.
†J. M. Grayson, Ph. D., Assoc. Ent.
*†W. B. Gross, D. V. M., Assoc. An. Path.
†C. H. Hill, M. S., Asst. Ent.
†W. S. Hough, Ph. D., Ent. (P. O., Winchester).

†W. S. Hough, Ph. D., Ent. (P. O., Winchester).

*I. B. Huey, Ph. D., Assoc. Prof. Plant Path.

*H. W. Jackson, Ph. D., Assoc. Biol.

†E. P. Johnson, D. V. M., Ph. D., An. Path.

*Max Levitan, Ph. D., Assoc. Prof. Genetics.

*A. B. Massey, M. S., Assoc. Prof. Biol.

*H. S. Mosby, Ph. D., Assoc. Prof. Wildlife Conserv.

Conserv.

Conserv.

†J. W. O'Byrne, B. A., M. F., Ext. For.

*F. S. Orcutt, Ph. D., Prof. Biol.

‡F. W. Patton, B. S., Ext. Assoc. For.

†J. O. Rowell, Ph. D., Ent.

*T. M. Smith, M. S., Instr.

*†W. L. Threlkeld, Ph. D., Assoc. Zool.

†G. W. Underhill, M. S., Assoc. Ent.

†A. M. Woodside, M. S., Asst. Ent. (P. O., Stauston)

Staunton).

Chemistry (Agr.):

†H. H. Hill, M. S., Head of Dept. and Chem.
†J. F. Eheart, M. S., Assoc. Prof. and Assoc.
Chem.
†W. N. Linkous, M. S., Asst. Chem.
†N. O. Price, M. S., Asst. Chem.
†R. W. Young, B. S., Asst. Biochem.

Dairy Husbandry:

*†C. W. Holdaway, M. S., Head of Dept. and Prof. Dairy Husb. and Dairy Mfrs. ‡R. G. Connelly, M. S., Ext. Dairy Husb.

Dairy Husbandry-Continued

*†C. C. Flora, Ph. D., Assoc. Prof. and Assoc. Dairy Husb.

‡A. S. Foster, M. S., Assoc. Dairy Husb.

*†G. C. Graf, M. S., Assoc. Prof. and Assoc.

*†G. C. Graf, M. S., Assoc. Proj. and Assoc. Dairy Husb.

‡J. N. Leckie, M. S., Assoc. Dairy Husb.

‡G. R. Pursley, A. M., Asst. Dairy Husb.

*P. M. Reaves, M. S., Prof. Dairy Husb.

*R. A. Sandy, M. S., Asst. Prof. Dairy Husb.

†§N. R. Thompson, M. S., Asst. Prof. and Asst. Dairy Husb.

Economics (Agr.) and Rural Sociology:

*†‡H. M. Love, Ph. D., Head of Dept.
†J. L. Buck, M. S., Assoc. Agr. Econ.
†W. E. Garnett, Ph. D., Rural Sociol.
*†C. W. Allen, M. S., Assoc. Prof. Farm Mgt.
*R. L. Chambliss, Jr., M. S., Assoc. Prof. Farm Mgt.
D. Chastian, Jr., M. S., Assoc. Prof.

Farm Mgt.

†E. D. Chastian, Jr., M. S., Assoc. Prof. Farm Mgt.

*†M. C. Conner, M. S., Assoc. in Farm Mgt.

†J. C. Curtis, M. S., Assoc. Agr. Econ.

*†W. L. Gibson, Jr., Ph. D., Prof. Land Econ.: Farm Mgt.

‡B. L. Gilley, M. S., Assoc. Rural Sociol.

†F. D. Hansing, M. S., Assoc. Prof. Land Econ. (U. S. D. A.).

‡B. L. Hummel, B. S., Rural Sociol.

*†J. D. Johnson, M. S., Assoc. Agr. Econ.

†J. M. Johnson, M. S., Assoc. Prof. Mktg.

‡D. U. Livermore, B. S., Assoc. Prof. Farm Mgt.

‡K. E. Loope, B. S., Assoc. Prof. Farm Mgt.

‡J. L. Maxton, Ph. D., Prof. Mktg.

‡B. F. Morgan, Jr., M. S., Assoc. Prof. Farm Mgt.

†R. G. Murphy, Ph. D., Assoc. Agr. Econ.

‡W. J. Nuckolls, M. S., Assoc. Prof. Farm Mgt.

†\$J. S. Plaxico, M. S., Assoc. Prof. Farm Mgt.

†\$J. S. Plaxico, M. S., Assoc. Prof. Farm Mgt.

*†Mrs. Jane W. Poulton, B. S., Instr.

*L. B. Tate, Ph. D., Prof. Rural Sociol.

Economic Land Classification:

†G. W. Patteson, B. S., Econ. Land Classi-

fier. †Z. M. K. F Classifier. Fulton, Jr., B. S., Econ. Land

†A. J. Harris, Econ. Land Classifier. †F. V. Shelton, B. S., Econ. Land Classifier.

Editorial:

†R. D. Michael, M. S., Ext. Editor. †T. M. Hyman, M. S., Assoc. Ext. Editor. †W. P. Bradley, B. S., Assoc. Editor. †A. M. Deekens, Asst. Editor. †Gene S. Moody, B. A., Ext. Asst. Editor.

Education (Voc.):

*H. W. Sanders, M. S., Prof. and Head of

*H. W. Sanders, M. S., Froj. trac.

*B. C. Bass, M. S., Asst. Prof. Agr. Ed.

*Martha G. Creighton, M. A., Prof. Home
Econ. Ed.

*T. J. Horne, M. S., Prof. Agr. Ed.

*D. L. Kinnear, M. S., Assoc. Prof. Agr. Ed.

*C. S. McLearen, M. S., Asst. Prof. Agr. Ed.

*C. E. Richard, M. S., Assoc. Prof. Agr. Ed.

*C. E. Richard, M. S., Assoc. Prof. Agr. Ed.

*C. E. Richard, M. S., Assoc. Prof. Agr. Ed.

*E. G. Thompson, B. S., Asst. Prof. Agr. Ed.

Engineering (Agr.):

†H. W. Glover, M. S., Asst. Agr. Engin. †H. W. Holton, B. S., Asst. Agr. Engin. (SCS).

Engineering (Agr.)—Continued

†J. E. Jones, B. S., Asst. Agr. Engin. (TVA).
†G. D. Kite, M. S., Ext. Assoc. Agr. Engin.
†J. H. Lillard, M. S., Assoc. Agr. Engin.
†McNeil Marshall, B. S., Assoc. Agr. Engin.
†W. L. McCoy, Instr. Farm Shop.
†J. E. Mocdy, M. S., Asst. Agr. Engin.
*B. L. Parker, B. S., Instr. Agr. Engin.
*B. L. Parsons, B. S., Instr. Agr. Engin.
†P. B. Potter, B. S., A. E., Agr. Engin.
†P. B. Potter, B. S., A. E., Agr. Engin.
*J. W. Sjogren, M. S., Assoc. Prof. Agr. Engin.

Engin.

‡P. W. Stoneburner, B. S., Asst. Ext. Agr.

*P. W. Stoneburner, B. S., 2000.

Engin.

*L. T. Swink, M. S., Assoc. Prof. and Ext. Assoc. Agr. Engin.

W. E. Turner, Jr., M. S., Soil Sci. (SCS).

*T. J. Wakeman M. S., Assoc. Prof. Farm Shops.

†J. P. Walker, B. S., Asst. Drainage Engin.

(SCS). ‡J. A. Waller, Jr., M. S., Ext. Assoc. Agr.

Engin.

‡C. D. Wheary, B. S., Ext. Assoc. Agr. Engin.

*F. E. White, B. S., Instr. Agr. Engin.

Extension Administration:

xtension Administration:

‡L. B. Dietrick, M. S., Dir.

‡W. H. Daughtrey, M. S., Assoc, Dir.

‡H. E. McSwain, Asst. Dir. in charge of
Farm Dem. Work.

‡Mande E. Wallace, Asst. Dir. in charge
Home Dem. Work.

‡Lucy P. Blake, M. S., Dist. Ext. Agt.

‡R. Belle Burke, Dist. Ext. Agt.

‡E. W. Carson, B. S., Dist. Ext. Agt.

‡G. H. Clark, B. S., Dist. Ext. Agt.

‡J. D. Hutchinson, Jr., B. S., Dist. Ext. Agt.

‡Betty K. Kyle, B. S., Dist. Ext. Agt.

‡Helen Ricks, Dist. Ext. Agt.

‡J. W. Rogers, B. S., Dist. Ext. Agt.

‡Edith Vaughan, B. S., Dist. Ext. Agt.

‡Edith Vaughan, B. S., Dist. Ext. Agt.

‡B. A. Warriner, Dist. Ext. Agt.

CERTIFIED SEED COMMISSION:

‡S. F. Grubbs, Chief of Field Force. ‡J. G. Sanderson, B. S., Seed Certification Agt. ‡J. R. Whately, B. S., Seed Certification

Agt.4-H CLUB: TW. E. Skelton, Ph. D., State 4-H Club

#Mary L. Graves, B. S., Asst. 4-H Club

Leader. ‡Hollie L. Hughes, B. S., State Girls' 4-H Club Agt. ‡W. A. Turner, B. S., Asst. State Boys' 4-H

Club Agt. OLDER YOUTH:

‡W. A. Eure, M. S., Ext. Spec.

SOIL CONSERVATION:

‡E. W. Mundie, B. S., Ext. Soil Conserv.

Home Economics:

*Mrs. Mildred T. Tate, Ph. D., Prof. and Head of Dept., Dean of Women. ‡Helen D. Alverson, B. S., Home Mgt. Spec. ‡Janet L. Cameron, M. S., Foods and Nutr.

Spec. **Spec. 5Blanch Davis, B. S., Asst. Home Econ.
†Willimay Dean, M. S., Asst. Home Econ.
†Amelia H. Fuller, M. S., Ext. Farm and
Home Unit Spec.
*Oris Glisson, M. S., Assoc. Prof. Home

Econ.

*Laura Harper, M. S., Assoc. Prof. Home

*Laura Harper, M. S., Assoc. Prof. Home Econ. ‡Ruth A. Jamison, B. S., Homemaking Spec. ‡Iva B. Johnson, M. A., Clothing Spec. *Ruth Little, M. S., Instr. Home Econ. *Mary Morgan, M. S., Instr. Home Econ. ‡Catherine Peery, M. S., Ext. Rural Arts

Spec. †Mary Settle, Housing Spec. †Mary L. Thompson, B. S., Asst. Foods Spec.

Horticulture:

*†‡W. P. Judkins, Ph. D., Head of Dept. *†‡F. S. Andrews, Ph. D., Assoc. Prof. and

Assoc. Hort.

†H. B. Aroian, B. S., Ext. Assoc. Hort.

†L. C. Beamer, Assoc. Veg. Gard. Spec.

*‡A. S. Beecher, M. S., Instr. and Ext. Asst. Hort.

*†L. L. Davis, Ph. D., Prof. Hort.; Hort. ‡F. R. Dreiling, B. S., Ext. Assoc. Hort. *†J. R. Havis, Ph. D., Assoc. Prof. and Assoc. Hort.

*†Frank Horsfall, Ph. D., Assoc. Prof. and

*ftrank Horstall, Ph. D., Assoc. Prof.
Assoc. Hort.

*†G. E. Mattus, Ph. D., Assoc. Hort.
†R. C. Moore, M. S., Asst. Hort.
†R. E. Moser, Jr., M. S., Assoc. Hort.
†G. D. Oberle, Ph. D., Hort.
†F. H. Scott, Ext. Asst. Hort.

*†A. G. Smith, Jr., B. S., Assoc. Hort.
†A. H. Teske, M. S., Ext. Hort.

Plant Pathology and Physiology:

*†\$S. A. Wingard, Ph. D., Head of Dept.

\$S. B. Fenne, M. S., Plant Path.

†A. B. Groves, Ph. D., Plant Path. (P. 0., Winchester).

*†R. G. Henderson, Ph. D., Plant Path. †R. H. Hurt, M. S., Assoc. Plant Path. †W. A. Jenkins, Ph. D., Plant Path. (P. O., Chatham).

Chathum).

†J. L. LaPrade, M. S., Asst. Tobacco Breeder (P. O., Chatham).

†L. I. Miller, M. S., Assoc. Plant Path. (P. O., Holland).

*†C. W. Roane, M. S., Assoc. Plant Path.

*†G. M. Shear, Ph. D., Plant Physiol.

†L. Spasoff, M. S., Asst. Plant Path.

*†J. I. Shafer, Ph. D., Assoc. Plant Physiol.

Poultry Husbandry:

* H. L. Moore, M. S., Head of Dept., Ext.

Poultry Husb.
†E. J. Albert, Supt. Poultry Plant.
†D. D. Bragg, B. S., Ext. Assoc. Poultry Husb.

Poultry Husbandry-Continued

†J. H. Bywaters, Ph. D., Poultry Husb. †M. E. Coe, M. S., Ext. Asst. Poultry Husb. †A. L. Dean, B. S., Ext. Assoc. Poultry

*†C. E. Holmes, Ph. D., Assoc. Prof. and Assoc. Poultry Husb.

Statistical Laboratory:

†Boyd Harshbarger, Ph. D., Stat.

*†R. A. Bradley, Ph. D., Assoc. Prof. Stat.

*†D. B. Duncan, Ph. D., Assoc. Prof. Stat.

†L. W. Cooper, B. A., Collab. (Coop. U. S.

D. A.).

†Glen Suter, B. A., Collab. (Coop. U. S.

D. A.). *†M. E. Terry, B. S., Assoc. Prof. Stat.

Miscellaneous:

*Kathleen H. Horton, B. A., Libr. in charge Agr. Sect.

Field Stations:

Bright Tobacco Field Sta., P. O., Chatham

Chandm—

E. M. Matthews, M. S., Assoc. Agron.

Eastern Va. Field Sta., P. O., Warsaw—

H. M. Camper, B. S., Asst. Agron.

Northern Va. Pasture Res. Sta., P. O.,

Northern Va. Pasture Res. Sta., P. O., Middleburg—
R. C. Hammes, B. S., Herdsman.
Willis Skrdla, Ph. D., Assoc. Agron.
T. H. Taylor, M. S., Asst. Agron.
Piedmont Field Sta., P. O., Orange—
G. D. Jones, B. S., Asst. Agron.
Shenandoah Valley Field Sta., P. O., Staunton—

ton—
P. T. Gish, M. S., Asst. Agron.
Southside Va. Field Sta., P. O., Charlotte
Court House—
Scars R. S. Asst. Agron.

R. D. Sears, B. S., Asst. Agron.
Tidewater Field Sta., P. O., Holland—
E. T. Batten, B. S., Assoc. Agron.
Va. Stat. Coll. Field Sta., P. O., Petersburg— M. T. Carter, M. S., Asst. Agron.

Virginia Truck Experiment Station, Norfolk 1

†Station staff.

†V. A. Tiedjens, Ph. D., Director.

†R. W. Brubaker, M. S., Assoc. Ent. (Coop.
U. S. D. A.)
†L. T. Chandler, Supt. Eastern Shore
Branch Truck Expt. Sta. (P. O., Onley).
†L. L. Danielson, Ph. D., Plant Physiol.,
†E. M. Dunton, Jr., Ph. D., Assoc. Soil
Technol.
†D. E. Greenwood, Ph. D., Ent.
†R. B. Hall, M. S., Asst. Soil Technol.
†R. N. Hofmaster, Ph. D., Asst. Ent.

rs. R. N. Hofmaster, Asst. in Plant Physiol. †Mrs. R.

Physiol.
†E. J. Hunsinger, Supt. Bldgs. and Grounds.
†F. T. McLean, Ph. D., Plant Breeder.
†H. M. Mears, Supt.
†R. S. Mullin, Ph. D., Plant Path.
†T. J. Nugent, M. S., Assoc. Plant Path.
†M. M. Parker, M. S., Assoc. Hort.
†H. A. Stewart, M. S., in charge of Irrig.
†Margaret E. Taylor, B. S., Asst. in Soils.
†A. V. Watts, B. S., Assoc. Hort.

Virginia State College, Petersburg

*Agricultural and Home Economics faculties. Leave of absence. ||Military leave.

*R P. Daniel, Ph. D., President.
*J. L. Lockett, Ph. D., Dir. Div. of Agr., Prof. Agron.
*Mrs. Mary E. V. Hunter, M. S., LL. D., Dir. of Home Econ., Prof. Home Econ. Ed.

*Mrs. Cleopatra W. Armstrong, M. A., Assoc. Prof. Clothing.

*T. N. Baker, Jr., Ph. D., Prof. and Head Dept. of Chem.

*A. L. Bozeman, M. S., Instr. Child Care and Family Life.

*M. W. Campbell, M. S., Periodicals Libr.

*M. T. Carter, M. S., Assoc. Prof. Agr. Econ.

*G. O. Charity, B. S., Farm Mgr.

*E. L. Duke, M. S., Instr. Hort.

*§R. H. Dunn, M. S., Asst. Prof. Hort.

*Elizabeth Durham, Ph. D., Assoc. Prof. Foods and Nutr.

*M. A. Fields, M. S., Asst. Prof. Agr. Ed.

*Irene Forest, M. S., Asst. Prof. Home and
Family Life.

*[C. C. Gray, III, M. S., Asst. Prof. Agron.

*Esther A. Harrison, M. S., Instr. Chem.

*B. K. Holley, M. S., Instr. Dairying.

*J. M. Holley, M. S., Instr. Agron.

*R. C. Howard, Ph. D., Head Dept. of Biol.,
Prof. Zool.

*J. A. Hulbert, M. S., Libr. Dir.

*A. J. Miller, M. S., Asst. Prof. Agr. Engin.

*Mary E. Moore, M. S., Asst. Prof. Bact.

*A. M. Myster, Ph. D., Prof. Agr. Ed.

- *Mrs. Geneva J. Myster, M. A., Asst. Prof. Applied Art. ary W. Neugent, M. S., Assoc. Prof.
- *Mary Foods and Nutr.

 *A. Elnora Owens, M. S., Assoc. Prof. Home
 Econ. Ed.
- *J. V. Parnell, Ph. D., Prof. Biol.
- *I. C. Peoples, M. S., Asst. Prof. and Poultry Farm Myr.

 *J. E. Settle, M. S., Assoc. Prof. An. Husb.

 *J. R. Thomas, M. S., Assoc. Prof. and Head Dept. Agr. Ed.

 *J. S. Trotter, M. S., Assoc. Prof. Chem.

 *W. L. Watson, Ph. D., Prof. Hort.

WASHINGTON

State College of Washington, The Institute of Agricultural Sciences (Agricultural Experiment Stations, Extension Service, College of Agriculture, and College of Veterinary Medicine), Pullman

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence.

- *Wilson Compton, Ph. D., President.

 *J. C. Knott, Ph. D., Dir. Inst. of Agr. Sciences.

 *M. T. Buchanan, Ph. D., Vice Dir. Inst. of Agr. Sciences, Dir. of Stations.

 *S. P. Swenson, Ph. D., Dean Coll. of Agr.

 ‡E. V. Ellington, B. S., Dir. of Ext. Service in Agr. and Home Econ.

 †J. W. Kalkus, D. V. S., Vice Dir. of Stations.

 *C. A. Pettibone, B. A., Business Mgr. and Comptroller.

Agronomy:

- *†B. R. Bertramson, Ph. D., Prof. and Chair. of Dept.

 K. E. Baur, M. S., Assoc. Soil Sci. (P. O., Puyallup).
- †N. R. Benson, M. S., Asst. Soil Sci. (P. O., Wenatchee).
- †V. F. Bruns, B. S., Asst. Agron. (Coop. U. S. D. A.: P. O., Prosser).
 †D. E. Buchanan, B. S., Junior Soil Sur-
- veyor.

 ‡M. D. Butler, B. S., Ext. Soil Conserv.

 †N. D. Dickson, B. S., Asst. Agron. (P. 0., Puyallup).
- †C. E. Domingo, B. S., Asst. Agron. (Coop. U. S. D. A.: P. O., Prosser).
 †A. I. Dow. M. S., Asst. Agron. (Coop. U. S. D. A.: P. O., Prosser).
 †F. C. Elliott, Ph. D., Asst. Prof. and Asst. Agron.
- Agron.
- †R. H. Fowler, B. S., Asst. Soil Surveyor.
 †W. H. Gardner, Ph. D., Asst. Prof. Soils;
 Asst. Soil Sci.
 †M. S. Grunder, M. S., Asst. Agron. (P. O.,
- †M. S. Grunder, M. S., Acco. Agron.

 Puyallup).

 *Mary Haferkamp, B. S., Instr. Farm

 Crops; Seed Analyst.

 †G. M. Horner, Ph. D., Agron. (Coop. U. S.
- D. A.). †J. A. Jackobs, Ph. D., Assoc. Agron. (P. O., Prosser).
- **T. L. Jackson, M. S., Junior Agron.
 †H. D. Jacquot, B. S., Assoc. Agron.
 †Shirley Kellenbarger, M. S., Junior Agron.
 †A. G. Law, M. S., Asst. Prof. Farm Crops;
 Asst. Agron.
 †R. A. McCreery, M. S., Instr. and Junior
 Soil Sci.
- *†C. D. Moodie, Ph. D., Asst. Prof. Soils;
- Asst. Soil Sci.
- #RSL. Soil Sci.

 ‡Kenneth Morrison, M. S., Ext. Agron. Spec.
 †C. E. Nelson, M. S., Agron. (Coop. U. S. D. A.: P. O., Prosser).
 †W. L. Nelson, M. S., Asst. Agron. (P. O., Lind).
- *†L. W. Rasmussen, Ph. D., Assoc. Prof. Farm Crops; Assoc. Agron. *†H. M. Reisenauer, Ph. D., Asst. Prof. Soils;

- *†H. M. Reisenauer, Ph. D., Asst. Proj. Souns, Asst. Soil Sci.

 *†E. G. Schafer, M. S., Prof. Agron., Asst. Dean Coll. of Agr.
 †H. P. Singleton, M. S., Agron. (Coop. U. S. D. A.: P. O., Prosser).

 *†H. W. Smith, Ph. D., Assoc. Prof. Soils; Assoc. Soil Sci.

 *†Luther Smith, Ph. D., Prof. Farm Crops; Agron.
- *†Luther Smith, Fh. D., Assoc. Agron.
 Agron.
 †C. O. Stanberry, Ph. D., Assoc. Agron.
 (P. O., Prosser).
 †W. A. Starr, B. S., Assoc. Res. Prof. Soils.
 *†S. P. Swenson, Ph. D., Prof. Agron.; Agron.
 †F. T. Tremblay, M. S., Asst. Soil Sci.
 (P. O., Puyallup).

- Agronomy -- Continued
- *†S. C. Vandecaveye, Ph. D., Prof. Soils;
 Soil Sci.
 †F. G. Vietts, Ph. D., Agron. (Coop. U. S.
 D. A.: P. O., Prosser).
 †O. A. Vogel, Ph. D., Agron. (Coop. U. S.
- †L. C. Wheeting, Ph. D., Dir. Washington State Conserv. Conference.

Animal Husbandry:

- *†M. E. Ensminger, Ph. D., Prof. and Chair.
- *†M. E. Ensminger, Ph. D., Prof. and Unarr. of Dept.

 *†W. E. Ham, Ph. D., Asst. Prof. and Asst. An. Husb.

 †W. W. Heinemann, M. S., Asst. An. and Dairy Husb. (P. O., Prosser).

 ‡R. R. Kyd, M. S., Est. An. Husb.

 †C. E. Lindley, M. S., Asst. An. Husb.

 *†T. O. Meyer, B. S., Instr. and Junior An. Husb.
- Husb.
- *†B. H. Schneider, Ph. D., Prof. An. Husb.;

Bacteriology and Public Health:

- *C. E. Skinner, Ph. D., Prof. and Chair. of
- *C. E. Skinner, Ph. D., Prof. and Chair. of Dept.

 *C. H. Drake, Ph. D., Assoc. Prof. Bact.

 *Marie A. Gilstrap, B. S., M. T., Instr. Bact. and Public Health.

 *Elizabeth R. Hall, M. S., Instr. Bact. and Public Health.

 *R. E. Hungate, Ph. D., Prof. Bact. and Public Health.
- *O. H. Johnson, B. S., Instr. Bact. and Public Health.

Botany:

- *Noe Higinbotham, Ph. D., Assoc. Prof. and
- *Noe Higinbotham, Ph. D., Assoc. Prof. and Chair. of Dept.

 Orlin Biddulph, Ph. D., Prof. Bot.

 *H. E. Brewer, Ph. D., Asst. Prof. Bot.

 *A. H. Cronquist, Ph. D., Asst. Prof. Bot.

 *R. F. Daubenmire, Ph. D., Assoc. Prof. Bot.

 *W. R. Hatch, Ph. D., Prof. and Chair. Div. of Biol. Sciences.

 *Adolph Hecht, Ph. D., Assoc. Prof. Bot.

 *F. M. Ownbey, Ph. D., Assoc. Prof. Bot.

Chemistry:

- †§J. L. St. John, Ph. D., Chair. Dept. Agr. Chem. (State Chem.). †M. A. Barmore, Ph. D., Chem. (Coop. U. S.

 - †M. A. Barmore, Ph. D., Onem. (Coop. D. A.)
 †R. J. Butler, B. S., Junior Chem. (Coop. U. S. D. A.).
 †G. H. Carter, B. S., Asst. Chem. (Coop. U. S. D. A.).
 *H. L. Cole, M. S., Assoc. Prof. Chem.
 *J. L. Culbertson, D. Sc., Prof. and Chair. Dept. of Chem. and Chem. Engin.
 *H. W. Dodgen, Ph. D., Asst. Prof. Chem.
 *R. W. Gelbach, Ph. D., Assoc. Prof. Chem.

Chemistry-Continued

†Kermit Groves, Ph. D., Assoc. Chem. *S. E. Hazlet, Ph. D., Prof. Chem., Dean of

*S. E. Hazlet, Ph. D., Prof. Chem., Dean of Grad. School.
†Edith E. Huey, B. S., Asst. State Chem.
(Coop. State Dept. of Agr.).
*G. B. King, Ph. D., Prof. Chem.
†Edith L. Lawrence, M. S., Junior Chem.
(Coop. State Dept. of Agr.).
†J. M. Lawrence, Ph. D., Assoc. Chem.
*M. Lindner, Ph. D., Assoc. Chem.
†V. L. Miller, M. S., Asst. Chem. (P. O., Puyallup).
*H. B. Milne, Ph. D., Asst. Prof. Chem.
†A. M. Neubert, Ph. D., Chem. (Coop. U. S. D. A.).

A. M. Neubert, Ph. D., Chem. (Coop. C. S. D. A.).
†Mrs. Mary B. Nichols, B. S., Junior Chem. (Coop. U. S. D. A.).
*C. J. Nyman, Ph. D., Asst. Prof. Chem.
*H. L. Rice, Ph. D., Instr. Chem.
*O. A. Roholt, Ph. D., Instr. Chem. (Coop. U. S. D. A.).

†E. F. Seeborg, Junior Chem.
D. A.).
*G. G. Smith, Ph. D., Instr. Chem.
†W. F. Sollars, M. S., Asst. Chem. (Coop.
U. S. D. A.).
*G. W. Stacy, Ph. D., Asst. Prof. Chem.
*C. M. Stevens, Ph. D., Assoc. Prof. Biochem.
†D. F. Sundberg, M. S., Asst. Chem. (Coop.
U. S. D. A.).
*E. L. Wagner, Ph. D., Instr. Chem.
†K. C. Walker, B. S., Asst. Chem. (P. O.,
Wenatchee).

†K. C. Wälker, B. S., Asst. Wenatchee).
†V. K. Watson. M. S., Asst. Chem. and Actg.
Chair. of Dept.

Dairy Husbandry:

*†A. O. Shaw, Ph. D., Prof. and Chair. of Dept.

*†U. S. Ashworth. Ph. D., Asst. Prof. and Asst. Dairy Chem.

*†H. A. Bendixen, Ph. D., Prof. Dairy Husb.; Dairy Husb.

*†T. H. Blosser, Ph. D., Asst. Prof. and Asst. Dairy Husb.

*†T. H. Blosser Ph. D., Asst. Prof. and Asst. Dairy Husb.
†C. W. Decker, Ph. D., Asst. Dairy Husb.
†R. E. Erb, Ph. D., Assoc. Prof. and Assoc. Dairy Husb.
†N. S. Goldine, Ph. D., Prof. Dairy Husb.; Dairy Husb.
‡E. B. Hope, M. S., Asst. Ext. Dairyman.
†L. J. Manus, Ph. D., Asst. Prof. and Asst. Dairy Husb.
‡R. A. Morrison, M. S., Asst. Ext. Dairyman.
†F. R. Murdock, Ph. D., Asst. Dairy Husb.
(P. O., Puyallup).
‡M. B. Nichols, B. S., Ext. Dairyman.
†C. C. Prouty, M. S., Assoc. Prof. and Assoc. Dairy Bact.

Economics (Agr.):

*†§C. M. Elkinton, Ph. D., Prof. and Chair. of

*†E. L. Baum, Ph. D., Asst. Prof. and Chair. of Dept.

*†E. L. Baum, Ph. D., Asst. Prof. and Asst. Agr. Econ.

‡R. S. Beck, Ph. D., Ext. Mktg. Spec.

*†W. M. Bristol, M. S., Asst. Prof. Agr. Econ.

‡A. J. Cagle, B. S., Ext. Econ. in Farm Mgt.

†W. Calhoun, M. S., Agr. Econ. (Coop. Western Agr. Econ. Res. Council).

*†I. L. Corbridge, M. S., Asst. Prof. and Asst. Agr. Econ.

*Agr. Econ.

†A. H. Harrington, Ph. D., Asst. Prof. and Assoc. Agr. Econ.

‡Karl Hobson, M. S., Assoc. Ext. Econ. in

†S. Q. Hoobler, M. S., Junior Agr. Econ. †E. B. Hurd, M. A., Agr. Econ. (Coop. U. S.

†B. A. Loomis, B. A., Junior Agr. Econ.

†R. A. Loomis, B. A., Junior Agr. Econ.

†§S. D. Parrish, M. S., Asst. Prof. and Assoc.

Agr. Econ. (Collab.).

†D. E. Pauls, M. A., Junior Agr. Econ. (Coop. II. S. D. A.)

*†§ A. W. Peterson, Ph. D., Prof. Agr. Econ.;
Agr. Econ.
*†J. P. Swanson, M. S., Instr. and Junior Agr.

Economics (Agr.)—Continued

*†H. G. Walkup, M. A., Junior Agr. Econ. (Coop. U. S. D. A.). *†C. H. Zuroske, B. S., Asst. Prof. and Asst.

Agr. Econ.

Editorial:

*E. G. Berenson, B. A., Editor, Pubs. Dept. ‡H. C. Anderson, B. A., Ext. Editor. ‡Mrs. Anna H. Erickson, M. A., Assoc. Ext. Editor

Editor.

Editor.

Editor.

M. F. Hicks, M. A., Dir. Coll. News Bureau.

R. R. Kull. B. A., Ext. Information Spec.

M. E. Miller, M. S., Stu. Editor.

M. E. Miller, M. S., Stu. Editor.

Mrs. Miriam S. Oyer, B. A., Pubs. Editor.

R. A. Sandberg, M. A., Exec. Asst. to the Pres. and Dir. of Public Relations.

Education (Agr.):

*E. M. Webb, M. A., Asst. Prof. Agr. Ed. *Oscar Loreen, B. S., Instr. Voc. Agr.

Engineering (Agr.):

*†June Roberts, M. S., Prof. and Chair. of †M. C. Ahrens, B. S., Agt. (Coop. U. S. D. A.).
†P. K. Fanning, B. S., Ext. Agr. Engin.
†J. George, B. S., Junior Agr. Engin.
*†R. O. Gilden, B. S., Instr. and Junior Agr.

Engin.

*D. H. Hartzog, B. S., Instr. Agr. Engin. *†W. H. Johnson, M. S., Asst. Prof. and Asst. *†W. E. Matson, B. S., Instr. and Junior Agr.

†S. J. Mech, B. S., Soil Conserv. (Coop. U. S. D. A.: P. O., Prosser).

†Aldert Molenaar, M. S., Prof. Agr. Engin.;

Agr. Engin. ‡H. E. Wichers, M. S., Ext. Spec. in Rural

Entomology:

Arch.

†R. L. Webster, Ph. D., Chair. of Dept.
*H. L. Eastlick, Ph. D., Prof. and Chair.
Dept. of Zool.
†E. W. Anthon, M. S., Asst. Ent. (P. O., †E. W. Anthow Wenatchee).

†D. H. Brannon, M. S., Ext. Ent. †E. P. Breakey, Ph. D., Assoc. Ent. (P. O., Puyallup).

K. Buechner, Ph. D., Instr. Wildlife *H.

Mgt.
*I. O. Buss, Ph. D., Prof. Wildlife Mgt.
†I. O. Buss, Ent. (P. O., Mt. Vernon).

S. Farner, Ph. D., Assoc. Prof. Zoo-

*D. S. Farner, Ph. D., Assoc. Proj. 200-physiology.

†K. E. Frick, B. A., Junior Ent. (P. O., Prosser).

*G. E. Hudson, Ph. D., Assoc. Prof. Zool.

*M. T. James, Ph. D., Assoc. Prof. Ent.

*V. L. Johnson, M. S., Instr. Zoophysiology.

†E. C. Klostermeyer, M. S., Junior Ent.

(P. O., Prosser).

*C. W. McNeil, Ph. D., Asst. Prof. Zool.

*†H. F. Menke, B. S., Instr. and Junior Ent.

*Ray Moree, Ph. D., Asst. Prof. Zool.

†W. J. O'Neill, M. S., Assoc. Ent. (P. O., Wenatchee).

†W. J. O'Neill, M. S., Assoc. Ent. (P. O., Wenatchee). *M. Rockstein, Ph. D., Asst. Prof. Zoophysi-

ology. †L. L. Stitt, M. S., Asst. Ent. (P. O., Puy-

allup).

†H. S. Telford, Ph. D., Assoc. Prof. and Assoc. Ent.

*R. H. Whittaker, Ph. D., Instr. Zool.

†H. R. Wolfe, B. S., Junior Ent. (P. O., Wenatchee).

*C. F. Yocom, Ph. D., Instr. Wildlife Mgt.

Extension Administration:

tE. V. Ellington, B. S., Dir. tR. M. Turner, B. S., Asst. Dir. tM. Elmina White, B. S., Asst. Dir. tC. T. Meenach, B. S., State 4-H Club. Agt.

Extension Administration-Continued

‡Marjorie Erp, M. A., Assoc. State 4-H Club

#Ruth Radir, Ed. D., Assoc. State 4-H Club

Agt. ‡A. Sunderland, B. S., Asst. State 4-H Club

Agt.
Loretta V. Cowden, B. S., State Ext. Agt.
Eleanore Davis, M. S., State Ext. Agt.
J. C. Dodge, M. S., State Ext. Agt.
E. J. Kreizinger, M. S., State Ext. Agt.
Lois B. Scantland, M. A., State Ext. Agt.
C. A. Svinth, B. S., State Ext. Agt.
Calvert Anderson, B. S., Asst. to Dir.
W. E. Zuger, B. A., Finance Officer.

Forestry and Range Management:

*E. H. Steffen, B. S., M. F., Prof. and Chair. of Dept.

†Knut Lunnum, B. S., Ext. For.

†M. M. Mosher, B. S., M. F., Asst. Prof. For.
and Range Mgt.; Asst. For.

*J. P. Nagle, B. S., Assoc. Prof. For. and
Range Mgt.

*J. W. Stubbs, B. S., Instr. For. and Range
Mgt.

Home Economics:

*Velma Phillips, Ph. D., Dean of Coll. *Anita Birkett, M. S., Asst. Prof. Institu-

*Anita Birkett, M. S., Asst. Prof. Institution Econ.

*Grace Boyd, M. S., Instr. Home Econ.

‡Eleanor Davis, M. S., Ext. Home Econ.

‡Lila Dickerson, B. S., Ext. Home Mgt.

‡Inez M. Eckblad, M. A., Ext. Nutr.

*Nettie C. Esselbaugh, Ph. D., Asst. Prof.

and Asst. Home Econ.

*Roberta Frasier, B. A., Chair. and Instr.

Child Development.

*Louise Gentry, M. S., Instr. Home Econ.

Ed.

†Margaret M. Hard, M. S., Asst. Home Econ. *Emma E. Harris, M. A., Asst. Prof. Child Development. *Eugenia Howson, M. A., Instr. Textiles and

Clothing.
*Mary E. Hughes, B. S., Instr. Institution

*Juanita I. Kahler, M. S., Asst. Dean and Assoc. Prof. Institution Econ. *Barbara J. Klopfer, M. A., Instr. Interior

Decoration.

Decoration.
†Ella F. Lang, M. S., Junior Home Econ.
*†Elvira Lindquist, M. S., Chair. of Dept.,
Asst. Prof. and Junior Home Econ. Textiles and Clothing.

†Marjorie S. Lusk, M. A., Ext. Clothing

Spec.

*Frances Maier, B. S., Instr. Institution

Econ.
*Delight Maughan, M. S., Chair. Dept. and
Asst. Prof. Foods and Nutr.
*Ruth McClead, M. S., Asst. Prof. Foods and

*†Barbara McLaren, Ph. D., Asst. Prof. and Asst. Home Econ. *Edna Messinger, B. S., Instr. Institution

Econ.
*Oulda Moore, M. S., Instr. Institution Econ.
*†Hazel C. Murray, Ph. D., Assoc. Prof. and
Assoc. Home Econ., Foods and Nutr.
*Alice B. Newbill, M. S., Asst. Prof. Institu-

tion Econ. ‡Helen I. Noyes, M. S., Ext, Econ. Home

Mgt. *Arlene Pattison, M. S., Prof. Household Equip.*Geneva Robertson, B. S., Instr. Institution

Econ.

*Econ.
*Ruth M. Smith, M. A., Chair. Dept. and
Asst. Prof. Interior Decorating.
*Ailsie M. Stevenson, A. M., Asst. Prof.
Home Econ. Ed. and Asst. State Super.
*Frances Stiles, Ph. D., Assoc. Prof. Child
Development.
*Selma A. Streit, B. A., Chair. Dept. and
Assoc. Prof. Institution Econ.

Home Economics-Continued

*Frances Strocinsky, B. S., Instr. Institu-

tion Econ.
*Leila Sturgis, M. A., Instr. Textiles and Clothing.
*Marge Thompson, B. S., Instr. Institution

Econ.

†Frances Watts, M. S., Junior Home Econ. (Coop. U. S. D. A.).
*Louise Windhusen, M. S., Instr. Home Mgt.
*†Anna L. Wood, M. S., Asst. Home Econ. and Asst. Prof.
*Patricia Wyatt, M. S., Instr. Foods and

Nutr.

Horticulture:

*†T. A. Merrill, Ph. D., Prof. and Chair. of Dept.

†W. B. Ackley, M. S., Asst. Hort.

†D. F. Allmendinger, Ph. D., Assoc. Hort.

(P. O., Vancouver).

*†L. R. Bryant, Ph. D., Assoc. Prof. and Assoc. Hort.

†R. M. Bullock, M. S., Asst. Hort. (P. O., Wenatchee).

†M. W. Carstens. Ph. D., Assoc. Hort.

†M. W. Carstens, Ph. D., Assoc. Hort. (P. O., Mt. Vernon). †W. J. Clore, Ph. D., Assoc. Hort. (P. O., Prosser).

†D. J. Crowley, B. S., Assoc. Hort. (P. 0., Long Beach). †H. W. Fogle, Ph. D., Asst. Hort. (P. 0.,

Prosser) *†E. W. Kalin, M. S., Asst. Prof. and Asst. Hort.

†J. F. Moore, Ph. D., Asst. Hort. (P. 0., Puyallup). †Arthur Myhre, B. S., Junior Hort. (P. O.,

Puyallup) Overley, M. S., Hort. (P. O., We-

natchee).
*†T. E. Randall, Ph. D., Assoc. Prof. and

*†T. E. Randan, Fh. D., Assoc. Proj. unw Assoc. Hort. *†Edward Ross, Ph. D., Assoc. Prof. and Assoc. Hort. †C. D. Schwartze, Ph. D., Assoc. Hort. *J. C. Snyder, Ph. D., Ext. Hort. *†C. R. Stumbo, Assoc. Prof. and Assoc. Hort.

*†C. R. Hort

*†W. S. Summers, M. L. A., Asst. Prof. and Asst. Hort. *†Archie Van Doren, Ph. D., Assoc. Prof. and Assoc. Hort. (P. O., Wenatchee). *†C. L. Vincent, Ph. D., Prof. Hort.; Hort. †Junita H. Wagner, Ph. D., Res. Assoc.

Plant Pathology:

*†G. W. Fischer, Ph. D., Prof. and Chair. of

State Dept. Agr.: P. O., Prosser).
†H. B. Busdicker, M. S., Path. (Coop. U. S. D. A.).
†Leo Campbell, Ph. D., Asst. Plant Path. (P. O., Puyallup).
†W. D. Courtney, M. S., Assoc. Nematologist (Coop. U. S. D. A.: P. O., Puyallup).
†C. J. Gould, Ph. D., Assoc. Plant Path. (P. O., Puyallup).
†S. O. Graham, B. S., Asst. Path. (Coop. State Dept. of Agr.: P. O., Prosser).
‡M. R. Harris, Ph. D., Ext. Plant Path. †C. S. Holton, Ph. D., Path. (Coop. U. S. D. A.).

 \widetilde{D} . \widetilde{A} .).

†Folke Johnson, Ph. D., Assoc. Plant Path.
(P. O., Puyallup).
†H. G. Kirkpatrick, Ph. D., Assoc. Path.
(Coop. U. S. D. A.: P. O., Wenatchee).
†R. C. Lindner, Ph. D., Assoc. Plant Path.
(P. O., Wenatchee).
*†S. B. Locke, Ph. D., Assoc. Prof. and Assoc.

Plant Path.

†D. M. McLean, Ph. D., Assoc. Path. (Coop. U. S. D. A.: P. O., Mt. Vernon).
†J. P. Meiners, B. S., Asst. Plant Path.

Plant Pathology-Continued

†J. D. Menzies, Ph. D., Path. (Coop. U. S. D. A.: P. O., Prosser).
†E. L. Reeves, M. S., Path. (Coop. U. S. D. A.: P. O., Wenatchee).
*†A. E. Rich, M. S., Asst. Prof. and Asst. Plant Path.
*†C. G. Shaw, Ph. D., Asst. Prof. and Asst. Plant Path.
†Roderick Surague Ph. D. Plant Path.

†Roderick Sprague, Ph. D., Plant Path. (P. O., Wenatchee).
†H. E. Williams, B. S., Junior Plant Path. (Coop. State Dept. Agr.: P. O., Prosser).
†C. M. Wright, Ph. D., Asst. Prof. and Asst. Plant Path.

Plant Path.
R. Wright, B. S., Assoc. Path. (Coop. U. S. D. A.: P. O., Wenatchee).

Poultry Husbandry:

*†J. S. Carver, B. S., Prof. and Chair. of Dept. †G. S. Bearse, B. S., Poultryman (P. O.,

Puyallup).
†L. R. Berg, M. S., Asst. Poultryman (P. O., Puyallup).

†R. S. Hansen, B. S., Asst. Poultryman (P. O. Puyallup).
†L. S. Jensen, B. S., Junior Poultry Husb.
*†I. L. Kosin, Ph. D., Assoc. Prof. and Assoc.

Poultryman.

Poultryman.
†C. F. McClary, M. S., Asst. Poultryman
†James McGinnis, Ph. D., Prof. Poultry
Husb.; Poultryman.
†J. P. Miller, M. S., Asst. Ext. Poultryman.
†W. J. Stadelman, Ph. D., Asst. Prof. and
Asst. Poultry Husb.
†R. A. Wilcox, M. S., Junior Poultry Husb.

Sociology (Rural):

*†P. H. Landis, Ph. D., Actg. Chair., Rural Sociol., and State Prof.

*†Vernon Davies, Ph. D., Asst. Prof. and Asst. Rural Sociol.

‡A. A. Smick, M. S., Ext. Spec. in Com-

munity Organ.
*†J. E. White, Ph. D., Junior Rural Sociol.

Veterinary Medicine:

-, Dean of Coll. and Chair. *H. E. Adler, D. V. M., Asst. Prof. Vet.

Path.м. Dickson, D. V. M., Instr. Vet. Physiol.

*†R. Gillespie, Ph. D., Assoc. Prof. and Assoc. Vet.

Veterinary Medicine-Continued

*†John Gorham, D. V. M., M. S., Asst. Vet. (Coop. U. S. D. A.).
†C. M. Hamilton, D. V. M., Vet. (P. O., Puyallup).
†A. C. Jerstad, D. V. M., Asst. Vet. (P. O., Puyallup).

†A. C. Jerstad, D. V. M., Asst. Vet. (P. U., Puyallup).

*R. A. Kainer, D. V. M., Instr. Vet. Anat.

†J. W. Kalkus, D. V. S., Vet. (P. O., Puyallup).

*P. A. Klavano, D. V. M., Asst. Prof. Vet. Physiol. and Pharmacol.

*J. E. McCoy, D. V. M., Prof. Vet. Med.

*J. A. McCurdy, D. V. M., Assoc. Prof. Vet.

*I. R. Montgomery, D. V. M., Asst. Prof. Vet. Med.

†E. H. Peterson, D. V. M., Ph. D., Asst. Prof. Poultry Path.; Assoc. Vet.

*W. E. Ribelin, D. V. M., Instr. Vet. Path.

*E. C. Stone, M. S., D. V. M., Assoc. Prof. Physiol Physiol.

*Nyles Van Hoosen, D. V. M., Asst. Prof. Vet. Med. *Arturs Vitums, D. V. M., V. S., Assoc. Prof.

Vet. Med.

Miscellaneous:

*D. J. Morrison, B. J., Asst. to the Dir., Instr. Agr. Sci. †L. W. Young, M. A., Asst. to the Dir., Agr. Expt. Sta.

Substations:

Cranberry-Blueberry Expt. Sta., P. O., Long Beach-

Beach—
D. J. Crowley, B. S., Supt.
Dry Land Expt. Sta., P. O., Lind—
W. E. Nelson, M. S., Supt.
Irrig, Expt. Sta., P. O., Prosser—
H. P. Singleton, M. S., Supt.
Northwestern Wash. Expt. Sta., P. O., Mt.

Vernon—
M. W. Carstens, Ph. D., Supt.
Soil Conserv. Expt. Sta. (Coop. U. S.
D. A.), P. O. Pullman—
G. M. Horner, Ph. D., Project Supvr.
Southwestern Wash. Expt. Sta., P. O., Vancouver

Tree Fruit Expt. Sta., P. O., Wenatchee—Archie Van Doren, Ph. D., Supt.
Western Wash. Expt. Sta., P. O., Puyal-

J. W. Kalkus, D. V. S., Supt.

WEST VIRGINIA

College of Agriculture, Forestry, and Home Economics and Agricultural Experiment Station of West Virginia University, Morgantown

*College faculty. †Station staff. ‡Extension staff. \$Leave of absence.

*Irvin Stewart, LL. B., Ph. D., LL. D., President of University.

*†H. R. Varney, Ph. D., Dean Coll. of Agr., For., and Home Econ., Dir. of Sta.

‡J. O. Knapp, B. S., Dir. of Agr. Ext.

*†A. H. VanLandingham, Ph. D., Asst. Dean Coll. of Agr., For., and Home Econ.,
Asst. Dir. of Sta.

*†\$C. T. Neff, Jr., A. B., LL. D., Comptroller, Treas.

Agronomy and Genetics:

*†G. G. Pohlman, Ph. D., Head of Dept. *†N. M. Baughman, B. S., Instr. and Asst. in Agron. *†O. J. Burger, Ph. D., Asst. Prof. and Asst.

Agron.
*†J. L. Cartledge, Ph. D., Prof. Genetics;

Geneticist.

†R. J. Friant, B. S., Ext. Agron.

†R. L. Galpin, Ph. D., Prof. Hydrology;
Hydrologist.

†C. W. Neal, B. A., Instr. and Asst. in

Genetics.

†B. J. Patton, A. B., Soil Sci. (Coop. U. S. D. A.).

Agronomy and Genetics-Continued

*†B. M. Ritter, B. S., Instr. and Asst. in Agron.

*†Collins Veatch, Ph. D., Assoc. Prof. and Assoc. Geneticist.

Animal Husbandry:

*†E. A. Livesay, Sc. D., Head of Dept. *†G. C. Anderson, Ph. D., Assoc. Prof. and Assoc. An. Husb.

*†R. H. Black, M. S., Assoc. Prof. and Assoc. An. Husb.

*†J. K. Bletner, M. S., Asst. Prof. and Asst. Poultry Husb.

Animal Husbandry—Continued

*†T. B. Clark, M. S., Assoc. Prof. and Assoc.
Poultry Husb.

†B. F. Creech, B. S., Ext. An. Husb.

†\$J. C. Emch, B. S., Asst. Ext. An. Husb.

†T. R. Hash, B. S., Ext. Poultryman.

*†R. L. Henrickson, M. S., Asst. Prof. Meats;
Asst. An. Husb.

†H. M. Hyre, M. S., Assoc. Prof. and Assoc.
Poultry Husb.

†B. W. Moore, B. S., Asst. Ext. Poultryman.

†Ben Morgan, Asst. Ext. An. Husb. (Mktg.).

†N. O. Olson, B. S., D. V. M., Prof. An.
Path.; An. Path.

*†C. V. Wilson, M. S., Prof. An. Husb.; An.
Husb.

Husb.

Biochemistry (Agr.):

†C. A. Flanders, M. A., Asst. Biochem. †J. H. Hare, Ph. D., Asst. Biochem. †Sam Stregevsky, M. A., Asst. Biochem. †C. E. Weakley, Jr., M. A., Assoc. Biochem.

Dairy Husbandry:

*†H. O. Henderson, Ph. D., Head of Dept. *†R. A. Ackerman, M. S., Asst. Prof. and Asst.

*†R. A. Ackerman, M. S., Asst. Proj. and Asst. Dairy Husb.

†C. G. Eno, B. S., Asst. Ext. Dairyman.

*J. E. Fike, M. S., Instr. Dairy Mfg.

‡Gerald Heebink, M. S., Ext. Dairy Husb.

†George Hyatt, Jr., M. S., Prof. Dairy Husb.; Dairy Husb.; Dairy Husb.

‡I. D. Porterfield, B. S., Asst. Ext. Dairy Hush.

+1. D. Tolterman, L. Husb.,
Husb.

*†W. J. Tyler, Ph. D., Prof. Dairy Husb.;
Dairy Husb.

*†S. J. Weese, M. A., Asst. Prof. and Asst.
Dairy Husb.

Economics (Agr.):

*†W. W. Armentrout, Ph. D., Head of Dept. †Ronald Bird, M. S., Coop. Agt. (Coop. U. S.

D. A.). ‡R. S. Boal, B. S., Ext. Econ. in Mktg. *†\$J. H. Clarke, M. S., Assoc. Prof. and Assoc.

Agr. Econ.
†H. C. Evans, M. S., Asst. Econ.
*†Norman Nybroten, Ph. D., Prof. Econ.;

Editorial—See Publications.

Engineering (Agr.):

*†A. D. Longhouse, Ph. D., Head of Dept.

*†E. R. Baker, Jr., B. S., Instr. and Asst.
Agr. Engin.

‡W. E. Bell, B. S., Ext. Agr. Engin.

*†D. P. Brown, M. S., Asst. Prof. and Asst.
Agr. Engin.

*†R. E. Emerson, M. S., Asst. Prof. and Asst.

Agr. Engin.

Entomology:

*†L. M. Peairs, Ph. D., Head of Dept.

Extension Administration:

Extension Administration:

‡J. O. Knapp, B. S., Dir.

‡C. C. Anderson, M. S., Admin. Asst. in Program Planning.

‡H. M. Bowers, B. S., Actg. State Agt.

‡R. H. Gist. B. S., State Agt.

‡C. H. Hartley, B. S., State Club Leader.

‡Gertrude Humphreys, A. B., State Leader Home Dem. Work.

‡I. B. Boggs, State Boys' Club Agt.

‡Florence A. Howard, State Girls' Club Agt.

‡Anna M. Boggs, A. B., Asst. State Leader Home Dem. Work.

‡C. P. Dorsey, M. S., Assoc. State Club Leader.

‡Mrs. Jessie F. Lemley, B. S., Asst. State

†Mrs. Jessie F. Lemley, B. S., Asst. State Leader Home Dem. Work. †W. H. Roberts, B. S., Dist. Agt. †Mrs. Bertha L. Shaw, Asst. to Dir.

Forestry:

*†W. C. Percival, Ph. D., Head of Div. and For.
*†M. G. Brooks, M. S., Prof. Wildlife Mgt.; Wildlife Conserv.

*†J. B. Byers, B. S. F., Asst. Prof. and Asst.

*†R. F. Dugan, M. F., Asst. Prof. and Asst. For., Ext. Spec. in Wildlife Mgt.

*†A. W. Goodspeed, M. F., Prof. For.; For.

†R. O. Gustafson, M. F., Assoc. For. in For.

†R. O. Gustafson, M. F., Assoc. For. in For. Mgt.
†D. E. Hollen, B. S., Asst. Ext. For.
*†Torkel Holsoe, M. S. F., Prof. Silviculture; Silviculturs, M. F., Instr. For. Utilization; Asst. in For.
†C. J. Johnson, B. S. F., Ext. For.
†G. V. Longacre, B. S. F., Res. Asst. in For.
†A. B. Lyon, B. S. F., Asst. Ext. For.
†Rudolfs Markus, Ph. D., Visiting Res. Prof. For.

*†G. G. Marra, M. S., D. For., Assoc. Prof. For. Utilization; Assoc. For.

*†C. A. Myers, M. F., Instr. and Asst. in For.

*†E. H. Tryon, Ph. D., Assoc. Prof. Silviculture; Assoc. For.

Home Economics:

*Ruth D. Noer, M. S., Head of Div.
*Georgia M. Amick, M. S., Instr.
*Helen L. Bolyard, M. S., Instr.
*Sara A. Brown, Ph. D., Assoc. Prof. Home

Econ. Ed. ‡Eloise S. Cofer, M. S., Ext. Spec. in Foods and Nutr. *Montelle Dietrich, M. S., Asst. Prof. Home

Econ.

*Florence M. Hurst, M. S., Asst. Prof. Nutr. *Helen S. Jones, B. S., Instr. Home Econ. †Ruth E. Knoch, M. S., Ext. Clothing Spec. *Beth M. Palmer, M. S., Asst. Prof. Home Econ.

** †Martha A. Plonk, M. S., Instr. and Asst. in Home Econ. Ed.

*Blanche E. Price, M. A., Asst. Prof. Instriction Mgt.

*Patricia A. Sanders, A. B., Instr.

*Dorothy A. Stoflet, M. S., Asst. Prof. Home

Econ. ‡Gladys Wasmuth, Ext. Home Mgt. Spec.

(Housing). †Faith J. Wolfe, M. S., Res. Asst. in Nutr.

Horticulture:

*†‡R. S. Marsh, M. A., Head of Dept.

*†W. H. Childs, Ph. D., Assoc. Prof. and Assoc. Hort.

*†\$J. D. Downes, Jr., B. S., Instr. and Asst. in Hort.

*†A. P. Dye, M. S., Asst. Prof. and Asst. Hort.

‡T. D. Gray, B. S., Ext. Landsc. Arch.

‡C. R. Kemper, B. S., Ext. Spec. in Veg. Gard.

**TM. H. Kolle, B. S. Asst. Ext. Hout.

Gard.

†M. H. Kolbe, B. S., Asst. Ext. Hort.

*O. M. Neal, B. S., Asst. Prof. Hort.

*†F. J. Nisbet, Ph. D., Asst. Prof. and Asst. Ornamental Hort.

†R. W. Pease, B. S., Asst. Hillculturist.

*†O. E. Schubert, Ph. D., Asst. Prof. and Asst. Hort.

*†K. C. Westover, Ph. D., Prof. Hort.; Hort.

Plant Pathology and Bacteriology:

Plant Pathology and Bacteriology:

*†J. G. Leach, Ph. D., Head of Dept.

*†H. L. Barnett, Ph. D., Prof. Mycol.; Mycol.

†C. F. Bishop, Ph. D., Ext. Plant Path. and

*†Genetieve B. Clulo, M. A., Assoc. Prof. and
Assoc. Plant Path.

*†M. E. Gallegly, Jr., Ph. D., Asst. Prof. and
Asst. Plant Path.

*†V. G. Lilly, Ph. D., Prof. Physiol.; Physiol.

*†SC. R. Orton, Ph. D., Sc. D., Prof. Plant
Path.; Plant Path.

*†Mary A. Ryan, M. S., Instr. and Asst. in
Bact.

Bact.
*†C. F. Taylor, Ph. D., Prof. Plant Path.;
Plant Path.

Plant Pathology and Bacteriology-Continued

*†R. P. True, Ph. D., Assoc. Prof. and Assoc. Plant Path. *†H. A. Wilson, Ph. D., Assoc. Prof. and

Assoc. Bact.

Publications:

†K. R. Boord, Asst. Ext. Editor. †Doris E. Kutz, B. S. J., Asst. Ext. Editor. †John Luchok, B. S., Asst. Editor. †J. F. Silbaugh, B. S., Univ. Editor. ‡L. G. Watson, A. B., Ext. Editor.

Rural Organization:

*D. W. Parsons, Ph. D., Head of Dept. *R. C. Butler, M. S., Asst. Prof. Rural Organ.

*C. W. Hill, Ph. D., Prof. Rural Organ.

Soil Conservation:

‡George Sharpe, M. S., Ext. Soil Conserv.

Veterinary Medicine-See Animal Husbandry.

Miscellaneous:

†‡D. R. Creel, Photog. and Asst. Ext. Ed. ‡G. H. Breiding, B. S., Naturalist. ‡Irene A. Spitz, A. B., Ext. Recreation Spec.

Ohio Valley Substa., P. O., Pt. Pleasant— D. R. Browning, M. A., Asst. Agron. in

D. R. Browning, M. A., Asst. Agron. in charge.

Reedsville Expt. Farm, P. O., Reedsville—
K. C. Westover, Ph. D., Hort. in charge
(P. O., Morgantown).

Reymann Memorial Farms, P. O., Wardens-

ymann Memorial Farms, P. O., warnens-ville—
C. J. Cunningham, B. S., Assoc. An. Husb. in charge.
J. O. Heishman, D. V. S., Assoc. An. Path.

University Expt. Farm, P. O., Kearneysmille-

ente—
Guid, B. S., Ent. in charge.
E. O. Hamstead, M. S., Asst. in Ent.
(Coop. U. S. D. A.).
A. H. Thompson, Ph. D., Hort.

West Virginia State College, Institute

*College faculty. †Station staff. ‡Extension staff.

*John W. Davis, A. M., Litt. D., LL. D., President.
*Madison Broadnax, M. S., Prof. and Head Dept. of Agr.
‡L. A. Toney, M. A., Dir. of Ext., State Leader.

Mrs. Amanda H. Anderson, B. S., Home

Dem. Agt. ‡Rudolph Arnette, Ext. Instr. Mining. *B. W. Barnes, B. S., Instr. Voc. Agr. ‡Mrs. Geraldine Belmear, B. S., Home Dem.

‡G. E. Brown, B. S., Asst. Supvr. Mining

F. E. Brown, B. S., Asst. Suppr. Mining Ed.
*R. L. Balley, Ph. D., Instr. Agr.
*Mrs. J. V. Carter, Club Agt.
‡U. G. Carter, B. S., Suppr. Mining Ed.
‡William Craig. Instr. Mining Ed.
‡Dewey Dixon, Ext. Instr. Mining.
*Mrs. Leaonead P. Drain, B. S., in L. S.,

Libr. ‡Mrs. Catherine Eubank, B. S., Home Dem. Agt.

‡Bennett Ferguson, Instr. Mining Ext. *B. F. Garrett, M. S., Prof. Agr. ‡Mrs. Victoria G. Goens, Olub Agt. *Mrs. Mary H. Greer, M. S., Iustr. Voc.

Home Econ. ‡C. T. Hairston, M. S., State Leader 4-H

Club Work.

*A. P. Hamblin, M. S., Prof. Biol. *Mrs. Clara B. Hamilton, R. N., Instr. Hyg. ‡Mrs. Ida E. Holcombe, B. S., Home Dem. Agt.

*Mrs. Ruth B. Jefferson, M. S., Instr. Home

Econ.
*W. T. Johnson, M. S., Itinerant Teacher
Trainer, Agr. Ed.
*Mrs. Mae A. Jones, M. S., Dir. Dept. of

*Mrs. Angie T. King, M. S., Instr. Chem. †Mrs. T. J. Livisay, B. S., Dist. Home Dem.

Agt.†Mrs. Bernice Lomax, B. S., Home Dem. Agt. †Mrs. Julia H. Lowery, B. S., Home Dem.

‡Mrs. Julia H. Lowéry, B. S., Home Dem. Agt.

‡Wesley Lynch, M. S., Agr. Ext. Agt.
‡E. H. Mitchell, M. S., County Agt.-at-Large.
‡Howard Monroe, Instr. Mining Ed.

*P. J. Moore, M. S., Prof. Chem.

‡John Patterson, Instr. Mining Ed.

*Miriam E. Penn. B. S., Asst. Libr.
†B. A. Perry, M. S., Res. Agron.

‡Mrs. Nello R. Preston, B. S., Club Agt.

*C. E. Prewitt, M. S., Instr. Agr.

‡Mrs. Susie J. Price, Club Agt.
‡L. H. Richardson, Instr. Mining Ed.

‡J. A. Shelton, M. S., Instr. Mining. Ed.

‡Ellis Thomas, B. S., Asst. Supvr. Mining Ed.

Ed.

‡Coyal Trust, B. S., Home Dem. Agt. *W. J. L. Wallace, Ph. D., Prof. Chem. *Amanda L. Wood, M. S., Instr. Home. Econ.

WISCONSIN

College of Agriculture and the Agricultural Experiment Station of the University of Wisconsin, Madison 6

*College faculty. †Station staff. ‡Extension staff. §Leave of absence.

*E. B. Fred, Ph. D., President of University.

*†‡R. K. Froker, M. S., Dean Coll. of Agr., Dir. of Sta., Dir. of Agr. Ext. Service.

*V. E. Kivlin, M. S., Assoc. Dean Coll. of Agr.
†Noble Clark, M. S., Assoc. Dir. of Sta.

†R. J. Muckenhirn, Ph. D., Asst. Dir. of Sta.

†W. W. Clark, M. S., Assoc. Dir. of Agr. Ext. Service.

‡A. M. Mucks, B. S., Asst. Dir. of Agr. Ext. Service.

*J. F. Wilkinson, B. S., Dir. of Farm Short Course.

*† A. J. Haas, Exec. Secy. and Financial Officer.

- *† H. L. Ahlgren, Ph. D., Prof. and Chair. of
 - Dept.
 †R. H. Andrew, Ph. D., Asst. Prof. Agron.
 †Z. M. Arawinko, B. S., Instr. Agron.
 *D. C. Arny, Ph. D., Asst. Prof. Agron.

Agronomy—Continued

†G. M. Briggs, B. S., Ext. Prof. Agron.

†K. P. Buchholtz, Ph. D., Assoc. Prof. Agron.

‡F. V. Burcalow, M. S., Ext. Prof. Agron.

(Coop. U. S. D. A.).

†J. R. Davis, B. S., Instr. Agron.

Agronomy-Continued

Agronomy—Continued

*L. F. Graber, Ph. D., Prof. Agron.
†D. J. Hagedorn, Ph. D., Asst. Prof. Agron.
†E. D. Holden, M. S., Assoc. Prof. Agron.
†Reuben James, B. S., Asst. Prof. Agron.
†J. T. Medler, Ph. D., Asst. Prof. Agron.
†J. T. Medler, Ph. D., Prof. Agron.
†R. P. Neal, Ph. D., Prof. Agron.
†R. G. Shands, Ph. D., Prof. Agron. (Coop. U. S. D. A.).

†D. C. Smith, Ph. D., Prof. Agron.
†D. W. Smith, Ph. D., Assoc. Prof. Agron.
†W. K. Smith, Ph. D., Assoc. Prof. Agron.
(Coop. U. S. D. A.).
†A. M. Strommen, M. S., Prof. Agron. (P. O., Spooner).

*†J. M. Sund, M. S., Instr. Agron.

††J. H. Torrie, Ph. D., Prof. Agron.

†W. L. Vandervest, M. S., Asst. Prof. Agron.

‡A. H. Wright, M. S., Prof. Agron.

Animal Husbandry:

*†‡Gustav Bohstedt, Ph. D., Prof. and Chair.
of Dept.

*†R. W. Bray, Ph. D., Assoc. Prof. An. Husb.

*‡J. G. Fuller, M. S., Prof. An. Husb.

*S. R. Gibbon, Instr. An. Husb.

*†R. H. Grummer, Ph. D., Assoc. Prof. An.
Husb.

*B. D. Heasl. B. S. Instr. An. Husb.

#usb.
*†B. D. Haasl, B. S., Instr. An. Husb.
*†E. R. Hauser, Ph. D., Asst. Prof. An. Husb.
*†E. H. Hoch, B. S., Instr. An. Husb.
‡J. J. Lacey, B. S., Ext. Prof. An. Husb.
*†Thomas McKenzie, Instr. An. Husb.
*†A. L. Pope, Ph. D., Assoc. Prof. An. Husb.
‡D. H. Williams, B. S., Assoc. Prof. An. Husb.

Bacteriology (Agr.):

*†‡W. C. Frazier, Ph. D., Prof. and Chair. of Dept.

*†O. N. Allen, Ph. D., Prof. Agr. Bact.

*†E. M. Foster, Ph. D., Assoc. Prof. Agr. Bact.

†Mrs. Mildred G. Johnson, M. S., Instr. Agr. Bact.

*†\$S. G. Knight, Ph. D., Asst. Prof. Agr. Bact. *†Elizabeth F. McCoy, Ph. D., Prof. Agr.

*†W. B. Sarles, Ph. D., Prof. Agr. Bact.

†J. B. Wilson, Ph. D., Assoc. Prof. Agr.

Bact.

†P. W. Wilson, Ph. D., Prof. Agr. Bact.

Biochemistry:

3iochemistry:

*†C. A. Elvehjem, Ph. D., D. Sc., Prof. and Chair. of Dept., Dean of Grad. School.

*†C. A. Baumann, Ph. D., Prof. Biochem.

*†R. H. Burris, Ph. D., Assoc. Prof. Biochem.

*†M. J. Johnson, Ph., D., Prof. Biochem.

*†H. O. Kunkel, Ph. D., Instr. Biochem.

*†H. A. Lardy, Ph. D., Prof. Biochem.

*†K. P. Link, Ph. D., Prof. Biochem.

*†W. H. Peterson, Ph. D., Prof. Biochem.

*†W. H. Phillips, Ph. D., Prof. Biochem.

*†V. J. Senn, M. S., Instr. Biochem.

*†E. E. Snell, Ph. D., Prof. Biochem.

*†M. A. Stahmann, Ph. D., Assoc. Prof. Biochem. A. Sta

*†§Harry Steenbock, Ph. D., D. Sc., Prof.

Biochem. †F. M. Strong, Ph. D., Prof. Biochem. †N. J. Williams, Jr., Ph. D., Asst. Prof. Bio-

Biometry and Physics:

†E. E. Miller, Ph. D., Asst. Prof. Biometry and Phys.
†P. J. Kaesberg, Ph. D., Instr. Biometry and Phys.
†R. G. D. Steel, Ph. D., Asst. Prof. Biometry and Phys.
†V. E. Suomi, B. E., Assoc. Prof. Met.

Dairy Husbandry:

*†‡E. E. Heizer, Ph. D., Prof. and Chair. of Dept.

Dairy Husbandry-Continued

*†N. N. Allen, Ph. D., Prof. Dairy Husb.

*†G. R. Barrett, Ph. D., Asst. Prof. Dairy Husb. (Coop. U. S. D. A.).

*†N. D. Bayley, B. S., Instr. Dairy Husb.

†H. V. Cobbs, B. S., Instr. Dairy Husb.

‡A. O. Collentine, B. S., Ext. Asst. Prof. Dairy Husb.

‡A. J. Cramer, B. S., Ext. Asst. Prof. Dairy

Husb.

1. Cramer, B. S., Ext. Asst. Prof. Darry Husb.

2. W. Crowley, M. S., Instr. Dairy Husb.

3. T. Fosgate, Instr. An. Husb.

4. F. A. Hendrickson, B. S., Instr. Dairy Husb.

4. Husb.

*R. P. Niedermeier, Ph. D., Asst. Prof. Dairy

*†V. R. Smith, Ph. D., Assoc. Prof. Dairy Husb.

†D. G. Sprain, B. S., Instr. Dairy Husb. ‡J. E. Stallard, B. S., Ext. Asst. Prof. Dairy

†G. W. Vergeront, B. A., Asst. Prof. Dairy Husb.
†G. W. Werner, B. S., Assoc. Prof. Dairy Husb.

*C. E. Zehner, B. S., Asst. Prof. Dairy Husb.

Dairy Industry:

*† H. C. Jackson, Ph. D., Prof. and Chair. of Dept.
E. Calbert, Ph. D., Asst. Prof. Dairy

Indus.
†R. J. Ellingen, B. S., Instr. Dairy Indus.
†R. J. Ellingen, B. S., Instr. Dairy Indus.
†D. M. Irvine, B. S., Instr. Dairy Indus.
*†W. V. Price, Ph. D., Prof. Dairy Indus.
*†H. H. Sommer, Ph. D., Prof. Dairy Indus.
*†A. M. Swanson, Ph. D., Assoc. Prof. Dairy Indus.
*†I. C. Thomsen, B. S., Prof. Dairy Indus.
‡M. R. Wahl, B. S., Instr. Dairy Indus.
*‡Event Wallenfeldt, M. S., Prof. Dairy Indus.

*†K. G. Weckel, Ph. D., Prof. Dairy Indus. †W. C. Winder, Ph. D., Asst. Prof. Dairy Indus.

Economics (Agr.):

*†‡R. J. Penn, Ph. D., Prof. and Chair. of Dept. *†H. H. Bakken, M. A., Assoc. Prof. Agr.

†H. H. Barren, Sc. ...,

Econ.

†W. E. Black, Ph. D., Asst. Prof. Agr. Econ.

(Coop. U. S. D. A.).

†H. J. Brandner, B. S., Instr. Agr. Econ.

*Vernon Carstensen, Ph. D., Assoc. Prof.

Agr. Econ.

†R. L. Clodius, Ph. D., Asst. Prof. Agr.

*†R. L. Econ.

*H. L. Cook, Ph. D., Assoc. Prof. Agr. Econ.

†L. M. Day, Ph. D., Asst. Prof. Agr. Econ.

*W. H. Ebling, Ph. D., Asst. Prof. Agr.

Econ.
O. Follett, B. S., Ext. Asst. Prof. Agr.

†A. O. Follett, B. S., Ext. Asst. Prof. Agr. Econ.

†I. F. Hall, Ph. D., Ext. Prof. Agr. Econ.

††H W. Halvorson, Ph. D., Prof. Agr. Econ.

††Myrtle Jones, B. A., Ext. Instr. Agr. Econ.

†Myrtle Jones, B. A., Ext. Instr. Agr. Econ.

††J. I. Kross, M. S., Assoc. Prof. Agr. Econ.

††C. W. Loomer, Ph. D., Assoc. Prof. Agr. Econ.

††P. E. McNall, Ph. D., Prof. Agr. Econ.

†A. H. Miller, B. S., Instr. Agr. Econ.

††D. R. Mitchell, M. S., Asst. Prof. Agr. Econ.

††W. P. Mortenson, Ph. D., Assoc. Prof. Agr. Econ.

*†W. P. Mortenson, Fh. D., Association.

*†\$K. H. Parsons, Ph. D., Prof. Agr. Econ.

*†O. T. Price, Ph. D., Instr. Agr. Econ.

†P. M. Raup, M. S., Asst. Prof. Agr. Econ.

(Coop. U. S. D. A.).

†M. A. Schaars, Ph. D., Prof. Agr. Econ.

†K. G. Shoemaker, M. A., Ext. Assoc. Prof.

Agr. Econ.

Agr. Econ. †E. J. Smith, M. A., Instr. Agr. Econ. (Coop.

U. S. D. A.). †S. C. Smith, B. A., Instr. Agr. Econ.

Editorial-See Journalism.

Education (Agr.):

*J. A. James, B. S., Prof. and Chair. of

Dept.

*F. W. Abrams, B. S., Instr. Agr. Ed.

*W. T. Bjoraker, M. S., Asst. Prof. Agr. Ed.

*R. E. Davenport, B. S., Instr. Agr. Ed.

*E. A. Jorgensen, M. S., Assoc. Prof. Agr.

*B. W. Kreitlow, Ph. D., Asst. Prof. Agr.

Engineering (Agr.):

Engineering (Agr.):

*†‡F. W. Duffee, B. S., Prof. and Chair. of Dept.

‡R. W. Abbott, B. S., Asst. Prof. Agr. Engin.

‡O. I. Berge, B. S., Asst. Prof. Agr. Engin.

†L. A. Brooks, B. S., Instr. Agr. Engin.

*†H. D. Bruhn, M. S., Prof. Agr. Engin.

*†E. G. Bruns, B. S., Asst. Prof. Agr. Engin.

*†L. H. Hodges, B. S., Instr. Agr. Engin.

*†C. E. Hughes, Instr. Agr. Engin.

*M. J. LaRock, B. S., Prof. Agr. Engin.

*†L. G. Morrissey, Instr. Agr. Engin.

**Engin.

*F. L. Moulton, B. S., Asst. Proj. in Ayr. Engin.

*†C. H. Neitzke, B. E., Asst. Prof. Agr. Engin.

*D. T. Pronin, B. S., Instr. Agr. Engin.

*A. J. Strang, B. A., Lect. in Agr. Engin.

‡R. C. Swanson, B. S., Asst. Prof. Agr. Engin.

*†F. B. Trenk, M. S., Prof. Agr. Engin. (For.: Coop. U. S. D. A.).

*†S. A. Witzel, M. S., Prof. Agr. Engin.

*‡A. J. Wojta, B. S., Asst. Agr. Engin.

Entomology (Econ.):

*†T. C. Allen, Ph. D., Prof. and Chair. of

*†J. W. Apple, Ph. D., Assoc. Prof. Econ. Ent.

*†S. D. Beck, Ph. D., Asst. Prof. Econ. Ent. †R. K. Chapman, Ph. D., Asst. Prof. Econ. Ent.

†R. J. Dicke, Ph. D., Assoc. Prof. Econ. Ent. †C. L. Farrar, Ph. D., Prof. Econ. Ent. (Coop. U. S. D. A.). ‡E. H. Fisher, Ph. D., Assoc. Prof. Econ.

*E. H. Fisher, Ph. D., Assert.

*†C. L. Fluke, Ph. D., Prof. Econ. Ent.

*†J. T. Medler, Ph. D., Asst. Prof. Econ.

Ent.

**D. R. Scott, B. S., Instr. Econ. Ent.

**D. Assoc. Prof. Econ.

Ent.

Extension Administration:

tW. W. Clark, M. S., Assoc. Dir. in charge. tA. M. Mucks, B. S., Asst. Dir. (Prof.). tA. J. Haas, Exec. Secy. (Prof.) tG. F. Baumeister, B. S., Dist. Ext. Leader

†G. F. Baumeister, B. S., Dist. Ext. Leader (Assoc. Prof.).

‡B. L. Cartter, B. S., Assoc. Prof. Ext.

‡G. E. Coppens, B. S., Instr.

‡Agnes M. Hansen, B. S., Asst. State Club Leader (Assoc. Prof.).

‡I. O. Hembre, B. S., Asst. Prof. Soil Conserver.

\$\frac{\text{serv.}}{\text{serv.}}\$

Ethel B. Hill, B. S., Asst. State Club Leader (Asst. Prof.).

D. H. Holt, B. S., Asst. Prof.

E. A. Jorgensen, M. S., Dist. Ext. Leader (Assoc. Prof.).

R. B. Pallett, B. S., Dist. Ext. Leader (Book)

(Prof.).

†R. H. Rasmussen, B. S., Asst. State Club Leader (Assoc. Prof.).
†W. A. Rowlands, B. S., Dist. Ext. Leader (Prof.).
†B. F. Rusy, B. S., Dist. Ext. Leader (Prof.).
†D. E. Simpson, B. S., Instr.
†L. G. Sorden, B. S., Asst. State Supvr. (Assc. Prof.).
†V. V. Varney, B. S., Asst. State Club Leader (Prof.).
†G. L. Wright, B. S., Asst. Supvr. (Assoc. Prof.).

Genetics:

*†R. A. Brink, D. Sc., Prof. and Chair. of Dept. †W. G. Black, M. S., Instr. (Coop. U. S.

†W. G. Black, M. S., Insu. (1997).

†L. E. Casida, Ph. D., Prof. Genetics.

†A. B. Chapman, Ph. D., Prof. Genetics.

†R. E. Christian, M. S., Instr. (Coop. U. S. D. A.).

†D. C. Cooper, Ph. D., Prof. Genetics.

†J. F. Crow, Ph. D., Asst. Prof. Genetics.

†R. G. Hitt, B. S., Instr. Genetics.

†R. W. Hougas, B. S., Asst. Prof. Genetics.

(Coop. U. S. D. A.).

†M. R. Irwin, Ph. D., Prof. Genetics (Coop. U. S. D. A.).

†Joshua Lederberg, Ph. D., Assoc. Prof. Genetics.

*†Joshua Lederberg, Ph. D., Assoc. Prof. Genetics.

*†N. P. Neal, Ph. D., Prof. Genetics.

*†G. H. Rieman, Ph. D., Prof. Genetics.

†R. M. Shackelford, Ph. D., Asst. Prof. Genetics.

†W. K. Smith, Ph. D., Assoc. Prof. Genetics (Coop. U. S. D. A.).

*†W. H. Stone, M. S., Instr. Genetics.
†L. C. Ulberg, M. S., Instr. (Coop. U. S. D. A.).

*†Joyce A. Wickham, B. S., Instr. Genetics.

Home Economics:

*Frances L. Zuill, M. A., Prof. and Chair. of Dept. and Dir. of Courses. *Helen L. Allen, M. A., Assoc. Prof. Home

Econ.

Econ.

‡Edith Bangham, B. S., Ext. Prof. and Asst.
State Leader.

*Cornelia L. Beckwith, M. A., Asst. Prof.
Home Econ.

*Anne R. Bloom, Instr. Home Econ.

*†Margaret M. Cooper, Ph. D., Assoc. Prof.
Home Econ.

*†May L. Cowles, Ph. D., Prof. Home Econ.

*Helen Cramer, M. A., Asst. Prof. Home
Econ.

Econ

*Mrs. Ruth D. Davis, M. S., Asst. Prof. *†Helen C. Dawe, Ph. D., Prof. Home Econ. †Mrs. Linnea C. Dennett, M. S., Assoc. Prof.

†Mrs. Linnea C. Dennett, M. S., Assoc. Proj. Home Econ.

*Dorothy Doll, B. S., Instr. Home Econ.
†Mrs. Grace R. Duffee, B. S., Est. Assoc. Prof. Home Econ. (Asst. State Leader).

*Grace Groskopf, M. S., Instr. Home Econ.
†Anita Gundlach, B. S., Asst. Prof. Home Econ. (Asst. State Leader).

*†Flora M. Hanning, Ph. D., Prof. Home Econ.

Econ.

*Mrs. Julia L. Hill, M. S., Asst. Prof. Home Econ.

*Olga M. Hoesly, M. A., Instr. Home Econ. ‡Gertrude M. Hoffman, B. S., Ext. Asst. Prof. Home Econ. ‡Viola M. Hunt, M. S., Asst. Prof. Home

Econ.

*†Dorothy L. Hussemann, Ph. D., Prof. Home Econ.

*Marion A. Juaire, M. S., Prof. Home Econ. †Eva M. Jensen, B. S., Instr. Home Econ. ‡Alice Kelly, M. S., Ext. Asst. Prof. Home Econ.

‡Blanche L. Lee, M. A., Prof. Home Econ. (State Leader).

*Mrs. Agnes Leindorff, M. S., Assoc. Prof. Home Econ. *Winnifred M. Lewis, M. A., Instr. Home

Econ. *Geraldine D. Liesch, M. S., Instr. Home

Econ.

*Mrs. Kathryn R. Lohr, M. S., Asst. Prof. Home Econ. *Hazel Manning, M. S., Prof. Home Econ. *Hazel Manning, M. S., Prof. Home Econ. *Susan E. Maxfield, M. S., Asst. Prof. Home

Econ.

 †Mrs. Margaret P. McCordic, B. S., Ext. Assoc. Prof. Home Econ.
 †Gladys L. Meloche, M. S., Ext. Prof. Home Econ.

Home Economics-Continued

- *Mrs. Iva R. Mortimer, M. S., Assoc. Prof.
- *MIS. IVA R. MOILLIMEI, M. S., Account 10.1.

 Home Econ.

 *Ruth H. Myrland, B. A., Asst. Prof. and
 Asst. to Chair. of Dept.

 *†Helen T. Parsons, Ph. D., Prof. Home
- Econ. *Stella T. Patton, M. S., Asst. Prof. Home
- Econ. ‡Helen Pearson, M. S., Assoc. Prof. Home
- Econ.
- *‡Josephine B. Pollock, M. A., Prof. Home Econ. (Asst. State Leader). *†Mrs. May S. Reynolds, Ph. D., Prof. Home
- Econ. *Mrs. Lois V. Siggelkow, B. S., Instr. Home
- Econ.
 *Mrs. Phyllis F. Spaulding, B. S., Instr.
- Home Econ.

 Gladys S. Stillman, M. S., Assoc. Prof.
 Home Econ. *Madeline J. Thornton, M. D., Lect. in Home
- Econ. *Mathilda E. Vandenbergh, B. S., Asst. Prof. Home Econ. ‡Louise A. Young, M. A., Assoc. Prof. Home
- Econ.

Horticulture:

- Horticulture:

 *†‡O. B. Combs, M. S., Prof. and Chair. of Dept.

 †G. E. Beck, M. S., Instr. Hort.

 *J. S. Elfner, B. S., Asst. Prof. Hort.

 †R. W. Fulton, Ph. D., Asst. Prof. Hort.

 (Coop. U. S. D. A.).

 *†W. H. Gabelman, Ph. D., Asst. Prof. Hort.

 †F. A. Gilbert, M. S., Asst. Prof. Hort.

 †James Johnson, Ph. D., Prof. Hort.

 †James Johnson, Ph. D., Prof. Hort.

 †James Johnson, Ph. D., Prof. Hort.

 *†Leonard Langord, B. S., Instr. Hort.

 *G. W. Longenecker, M. S., Prof. Hort.

 ‡J. G. Milward, M. S., Ext. Prof. Hort.

 †J. G. Moore, M. S., M. H., Prof. Hort.

 †W. B. Ogden, M. S., Asst. Prof. Hort.

 *†R. H. Roberts, Ph. D., Prof. Hort.

 *†R. H. Roberts, Ph. D., Prof. Hort.

 *†G. A. Ziegler, B. S., Instr. Hort.

Journalism (Agr.):

- *†‡B. E. Kearl, M. S., Assoc. Prof. and Acting Chair. of Dept. *†‡R. S. Beeler, M. S., Asst. Prof. Agr. Jour-nalism; Ext. Editor. *†M. E. Bliss, B. S., Asst. Prof. Agr. Jour-
- nalism. \$Mrs. Aline W. Hazard, B. S., Instr. Agr.
- Journalism.

 †A. W. Hopkins, B. L., Prof. Agr. Journalism.

 †Alice H. Jones, B. S., Instr. Agr. Journalism. *†‡Alice
- *†‡Alice II. John., and the malism.

 *†‡B. C. Jorns, Asst. Prof. Agr. Journalism.

 *†‡Grace E. Langdon, M. A., Asst. Prof. Agr.
 Journalism; Asst. Agr. Editor.

 *†‡Mrs. Eva K. Marks, M. S., Instr. Agr.
- *†‡Mrs. Eva K. Marks, M. S., Instr. Agr. Journalism. *J. E. Ross, M. S., Instr. Agr. Journalism. *W. A. Sumner, M. Ph., Prof. Agr. Journalism.

Plant Pathology:

- *†G. W. Keitt, Ph. D., D. Sc., Prof. and Chair. of Dept.

 *†D. C. Arny, Ph. D., Asst. Prof. Plant Path.

 *M. P. Backus, M. A., Prof. Plant Path. and Bot.

 †C. H. Beckman, B. S., Project Assoc.

 †‡H. M. Darling, Ph. D., Prof. Plant Path.

 *†J. G. Dickson, Ph. D., Prof. Plant Path.

 (Coop. U. S. D. A.).

 †D. J. Hagedorn, Ph. D., Asst. Prof. Plant Path.
- - †D. J. Hagedorn, Pn. D., Asserberger, Path.
 †E. H. Herrling, B. S., Instr. Plant Path.

Plant Pathology—Continued

- *‡A. C. Hildebrandt, Ph. D., Asst. Prof. Plant Path.

 ‡E. D. Jones, B. S., Instr. Plant Path.

 †J. E. Kuntz, Ph. D., Asst. Prof. Plant Path.

 - †R. H. Larson, Ph. D., Asst. Prof. Plant
 Path. (Coop. U. S. D. A.).
 †C. C. Leben, Ph. D., Asst. Prof. Plant Path.
 †J. D. Moore, Ph. D., Assoc. Prof. Plant
 Path.
- †G. S. Pound, Ph. D., Assoc. Prof. Plant Path.

 †A. J. Riker, Ph. D., Prof. Plant Path.

 ‡E. K. Wade, M. S., Asst. Prof. Plant Path.

 †J. C. Walker, Ph. D., Prof. Plant Path.

Poultry Husbandry:

- Poultry Husbandry:

 *†‡J. G. Halpin, B. S., Prof. and Chair. of Dept.

 *†J. L. Adams, B. S., Instr. Poultry Husb.

 *†‡G. E. Annin, M. S., Assoc. Prof. Poultry Husb.

 *†W. W. Cravens, Ph. D., Prof. Poultry Husb.

 ‡J. B. Hayes, B. S., Ext. Prof. Poultry Husb.

 *‡W. H. McGibbon, Ph. D., Prof. Poultry Husb.

 *†W. L. Sunde, M. S. Instr. Poultry Husb.
 - *†M. L. Sunde, M. S., Instr. Poultry Husb.

Sociology (Rural):

- *†W. H. Sewell, Ph. D., Prof. and Chair. of Dept.
- *J. R. Barton, B. A., B. D., Assoc. Prof. Rural Sociol. *Aaron Bohrod, Artist in Residence, Rural
- *AARON BOHFOU, AFFISE IN LOCALITY, Sociol.

 †R. W. Gard, M. A., Assoc. Prof. Rural Sociol.

 *†G. W. Hill, Ph. D., Prof. Rural Sociol.

 *J. H. Kolb, Ph. D., Prof. Rural Sociol.

 ‡J. A. Schwalbach, M. S., Asst. Prof. Rural
- Sociol.

 *‡A. F. Wileden, M. S., Prof. Rural Sociol.

Soils:

- *†Emil Truog, M. S., Prof. and Chair. of *†Emil Truog, M. S., Proj. and Onav. of Dept.

 *A. R. Albert, B. S., Assoc. Prof. Soils.

 *†O. J. Attoe, Ph. D., Assoc. Prof. Soils.

 †K. C. Berger, Ph. D., Prof. Soils.

 †C. J. Chapman, B. S., Ext. Prof. Soils.

 *P. O. Ekern, Jr., B. A., Instr. Soils.

 *†L. E. Engelbert, Ph. D., Instr. Soils.

 ††L. J. Graul, M. S., Prof. Soils.

 ‡F. D. Hole, Ph. D., Ext. Asst. Prof. Soils.

 ‡H. H. Hull, Ph. D., Ext. Asst. Prof. Soils.

 †M. L. Jackson, Ph. D., Prof. Soils.

 †A. E. Peterson, M. S., Project Assoc.

 *†C. B. Tanner, B. S., Instr. Soils.

 ‡F. H. Turner, M. A., Instr. Soils.

 ‡S. A. Wilde, D. Tech. Sc., Prof. Soils.

 ‡A. J. Wojta, B. S., Asst. Prof. Soils.

 *†O. R. Zeasman, B. S., Prof. Soils.

Veterinary Science:

- Veterinary Science:

 *†C. A. Brandly, D. V. M., Prof. and Chair. of Dept.

 *‡B. A. Beach. D. V. M., Prof. Vet. Sci.

 †D. T. Berman, D. V. M., Asst. Prof. Vet. Sci.

 †T. L. Chow, Ph. D., Project Assoc.

 †H. K. Cohen, D. V. M., Instr. Vet. Sci.

 †R. P. Hanson, Ph. D., Asst. Prof. Vet. Sci.

 †R. P. Hanson, Ph. D., Asst. Vet. Sci.

 *†C. A. Herrick, D. Sc., Ph. D., Prof. Vet. Sci.

 *†T. Kowalczyk, D. V. M., Instr. Vet. Sci.

 †L. Vet. Sci. And Zool.

 *†T. Mowalczyk, D. V. M., Instr. Vet. Sci.

 †S. H. McNutt, D. V. M., Prof. Vet. Sci.

 †T. Moll, D. V. M., Instr. Vet. Sci.

 *†B. S. Morgan, Ph. D., Prof. Vet. Sci.

Veterinary Science-Continued

†E. V. Morse, D. V. M., Ph. D., Asst. Prof. Vet. Sci. *†R. E. Nichols, D. V. Sc., Lect. and Res.

Assoc.

†J. Simon, D. V. M., Instr. Vet. Sci.

†D. K. Sorenson, D. V. M., Instr. Vet. Sci.

†Mrs. Nancy W. Teply, M. S., Instr. Vet.

Sci.

†F. Louise Wipf, Ph. D., Instr. Vet. Sci.

Wildlife Management:

*†J. J. Hickey, Ph. D, Prof. and Chair. of

Dept.

*†R. S. Ellarson, M. S., Instr. Wildlife Mgt.

*R. A. McCabe, Ph. D., Asst. Prof. Wildlife Mgt.

Miscellaneous:

*Dagny Borge, Asst. Libr.
†J. W. Deppe, B. S., Instr. Agr. Admin.
*R. W. Gerhardt, M. S., Instr. Agr. Admin.
*†C. S. Hean, B. A., Libr.
*Mrs. Agnes O. Jones, M. S., Asst. Libr.
([Justr.])

(Instr.). W. Matthias, B. S., Asst. Prof. Agr. Admin., in charge Univ. Farms.

Substations:

Ashland, Spooner, Peninsular, Sturgeon Bay, Hancock, Coddington, and Marshfield Branch Expt. Stas.— W. A. Rowlands, B. S., in charge (P. O.,

Madison).

Maason).
G. N. Brooks, B. S., Asst. Prof. in
Branch Stas. (P. O., Hancock).
F. A. Gilbert, M. S., Asst. Prof. in Branch
Stas. (P. O., Sturgeon Bay).
R. F. Johannes, M. S., Asst. Prof.
Branch Stas. (P. O., Marshfeld).
R. T. Lorenzen, B. S., Instr. in Branch

Stas.

H. J. Lowe, B. S., Instr. in Branch Stas.
(P. O., Ashland).
C. O. Rydberg, B. A., Instr. in Branch
Stas. (P. O., Spooner).
A. M. Strommen, M. S., Prof. in Branch
Stas. (P. O., Spooner).
G. R. Tenpas, B. S., Instr. (P. O., Ashland).

land). G. L. Wright, B. S., Asst. Prof. Branch Stas.

Upper Miss. Erosion Expt. Sta., P. O., La Crosse— O. E. Hays, B. S., Supt. (Coop. U. S. D. A.).

WYOMING

College of Agriculture and the Agricultural Experiment Station of the University of Wyoming, Laramie

*College faculty. †Station staff. ‡Extension staff. Military leave. Leave of absence.

*G. D. Humphrey, Ph. D., President of University.

††‡H. M. Briggs, Ph. D., Dean Coll. of Agr., Dir. of Sta.

‡A. E. Bowman, B. S., Dir. of Ext. Work in Agr. and Home Econ.

†L. G. Meeboer, B. C. S., Business Mgr. and Deputy Treas.

Agronomy and Economics (Agr):

*†A. F. Vass, Ph. D., Prof. and Head of Dept.; Agron. and Agr. Econ.
†O. K. Barnes, B. S., Assoc. Agron. (Soil Conserv. Invest.: Coop. U. S. D. A.).
*†C. F. Becker, M. S., Asst. Prof. Agr. Engin.;

*†C. F. Becker, M. S., Asst. Prof. Agr. Engin.;
Asst. Agr. Engin.

*†A. A. Beetle, Ph. D., Assoc. Prof. Agron.;
Assoc. in Range Mgt.

*†D. W. Bohmont, M. S., Instr. Agron.; Res.
Asst. in Weeds.

‡F. A. Chisholm, B. S., Ext. Agron.

*†T. J. Dunnewald, M. S., Assoc. Prof.
Agron.; Assoc. in Soils.

†C. Edwards, B. S., State Seed Analyst.

*†J. A. Hopkin, M. S., Asst. Prof. and Asst.
Agr. Econ.

*†J. A. Hopkin, M. S., Asst. Proj. and Asst. Agr. Econ.

*†R. L. Lang, M. S., Assoc. Prof. Agron.;
Assoc. in Range Mgt.

†R. D. Lewis, M. S., Soil Sci. (BPISAE:
Coop. U. S. D. A.).

*†W. M. Miller, M. S., Asst. Prof. Agr.
Engin.; Asst. in Irrig.

†B. Perkins, M. S., Asst. State Seed
Analyst

*†W. A. Riedl, Ph. D., Prof. Agron.; Agron. in Crops and Seed Certification.

*†||C. M. Rincker, B. S., Instr. and Res. Asst.

in Agron.
*†C. R. Rhode, M. S., Asst. Prof. and Asst.

*†G. H. Starr, Ph. D., Prof. Agron.; Plant Path.

*†I. M. Stevens, B. S., Instr. and Res. Asst. in Agr. Econ. †Byron Tomlinson, B. S., Irrig. Engin.

(Coop. SCS). *†J. R. Tompkin, Ph. D., Asst. Prof. and

*†E. D. Vaughan, M. S., Asst. Prof. and Asst.

*†E. D. Vaughan, M. S., Asst. Froj. und Acc Agr. Econ. *†H. J. Walters, M. S., Asst. Prof. Agron Asst. in Plant Path. ‡A. W. Willis, M. S., Ext. Agr. Econ. ‡G. O. Woodward, B. S., Ext. Irrig. Spec. Asst. Prof. Agron.;

Animal Production:

Animal Production:

*†N. W. Hilston, Ph. D., Prof. and Head of Dept.; An. Husb.

*†D. C. Brown, M. S., Asst. Prof. An. Prod.; Asst. Dairy Husb.

‡N. L. Dahlquist, B. S., Ext. Livestock Spec.

*†G. T. Davis, M. S., Assoc. Prof. An. Prod.; Assoc. Poultryman.

‡K. B. Ellis, B. S., Ext. Poultryman.

*†E. K. Faulkner, M. S., Asst. Prof. An. Prod.; Asst. in An. Husb.

‡Anton Fellhauer, M. S., Ext. Livestock Spec.

Spec.

*†J. A. Gorman, M. S., Asst. Prof. An. Prod.; Asst. An. Husb.
†Daniel Hutto, B. S., Res. Asst. in Poultry.
‡I. H. Loughary, B. S., Ext. Dairyman.
*†C. B. Roubleek, Ph. D., Asst. Prof. in An. Prod.; Asst. An. Husb.
†H. S. Willard, Ph. D., Prof. An. Prod.; Dairyman.

 $\widetilde{Dairyman}$.

Botany and Forestry:

*H. T. Northen, Ph. D., Head of Dept. and

*H. T. Northen, F. B. D., Prof. Bot.

*J. L. McMullen, M. S., Instr.

*Aven Nelson, Ph. D., D. Sc., LL. D., Prof. Bot. Bot. Bot. Bot. Bot.

*C. L. Porter, Ph. D., Prof. Bot.

*J. F. Reed, Ph. D., Assoc. Prof. Bot.

*W. G. Solheim, Ph. D., Prof. Bot.

Chemistry:

*E. R. Schierz, Ph. D., Head of Dept. and *E. K. Schierz, Ph. D., Revue of Deep Prof. Chem. *W. B. Cook, Ph. D., Instr. *L. P. Eddy, M. S., Instr. *J. T. Field, Ph. D., Assoc. Prof. *F. C. Freytag, Ph. D., Assoc. Prof. *C. D. Heaton, Ph. D., Instr. *Rebecca Raulins, M. S., Instr. *C. Phoods Ph. D. Instr.

*S. J. Rhoads, Ph. D., Instr.

*R. O. Sutherland, Ph. D., Asst. Prof.

*L. E. Walter, M. S., Prof. (State Chem.).

Chemistry (Res.):

*†O. A. Beath, M. A., Head of Dept., Res. Chem

them.
†H. F. Eppson, M. S., Assoc. Res. Chem.,
Head of Weather Sta.
†C. S. Gilbert, M. A., Prof. and Res. Chem.
†J. W. Hamilton, Ph. D., Asst. Res. Chem.
†Mrs. Rosalie Reynolds, B. S., Service Chem.
†Irene Rosenfeld, Ph. D., Assoc. Pharmacol.

Economics-See Agronomy.

Editorial:

†Gerald Jenny, M. S., Sta. Editor. ‡J. F. Schinagl, M. S., Ext. Editor. ‡Peggy Varvandakis, B. A., Asst. Ext. Editor.

Education (Agr.):

*Theodore Butler, B. S., Instr. in Voc. Agr.

Ed.
*Jack Ruch, B. S., Asst. Prof. and Teacher
Trainer in Voc. Agr. Ed.

Entomology and Apiculture:

*th. Thomology and Appendicts.

*†R. E. Pfadt, Ph. D., Assoc. Prof. and Head
of Dept.; Assoc. Ent.
†D. G. Denning, Ph. D., Asst. Ent.
†J. D. Hitchcock, M. A., Apiculturist.
†R. F. Honess, M. A., Asst. Parasit.
†I. L. Revell, B. S., Asst. Apiculturist.
‡T. R. Robb, B. S., Ext. Ent. (P. O., Torrinaton).

†A. P. Sturtevant, Senior Apiculturist in charge U. S. Intermountain States Bee Culture Lab.

Extension Administration:

‡A. E. Bowman, B. S., Dir.

‡W. T. Kirk, B. S., Asst. Dir.

‡L. F. Schilt, B. S., County Agt. Leader.

‡Mrs. Verna J. Hitchcock, M. S., State

Home Dem. Leader.

‡B. W. Marston, B. S., State Club Leader.

‡Aleta McDowell, B. S., State 4-H Club Agt.

‡Mae Baird, M. A., Spec. in Field Studies

and Planning. and Planning.

Home Economics:

*†Elizabeth J. McKittrick, M. S., Prof. and Chair. of Div. *Ruth D. Barker, M. A., Asst. Prof. Home

Econ.

*Ruth Bumpas, M. S., Assoc. Prof. Clothing and Textiles. ‡Pauline Bunting, M. S., Ext. Home Mgt.

Spec.

*Bernadete Costello, M. S., Instr. Home Econ.

*Myrtle Mainquist, M. S., Asst. Prof. in Home Econ.

‡Mrs. Evangeline J. Smith, B. S., Foods and Nutr. Spec.

Home Economics-Continued

*†Emma J. Thiessen, M. A., Assoc. Prof. and Assoc. Home Econ. ‡Martha Ulrich, M. S., Ext. Clothing Spec.

tW. O. Edmondson, B. S., Ext. Farm For. and Hort.

Veterinary Science and Bacteriology:

*†J. E. Prier, M. S., D. V. M., Assoc. Prof. and Head of Dept.; Assoc. Vet.

*†L. R. Fina, Ph. D., Asst. Prof. and Asst. Bact.

*†R. M. Thomas, D. V. M., Asst. Prof. and Asst. Vet.

Wool:

*†R. H. Burns, Ph. D., Prof. and Head of

Dept.; Wool Spec.
*†Alexander Johnston, M. S., Prof. Wool;

Wool Spec.

*†J. N. Myers, M. S., Instr. and Res. Asst. in Wool.

*†L. C. Parker, M. S., Asst. Prof. and Asst. Wool Spec.

‡M. D. Trump, Ext. Wool Mktg. Spec.

Zoology:

*L. F. Clarke, Ph. D., Prof. and Head of Dept.

*Bept. *Benter, M. S., Instr. *R. H. Benniston, Ph. D., Assoc. Prof. *R. W. Fautin, Ph. D., Assoc. Prof. *H. Huizinga, M. A., Asst. Prof. *A. B. Mickey, M. S., Assoc. Prof. *W. B. Owen, Ph. D., Prof. *J. W. Scott, Ph. D., Prof.

Miscellaneous:

*†§H. W. Benn, M. S., Admin. Asst. to Dean and Dir. *†N. O. Rush, M. S., Dir. of Libr. *†Wanda Walton, B. S., Secy. to Dean and Chief Clerk Expt. Sta.

Experiment Farms:

G. H. Bridgmon, Ph. D., Asst. Prof. Plant Path.; Asst. Dir. of Sta., in charge Expt. Farms.

Expt. Farms.

Afton Substa, P. O., Afton—
R. J. Hyer, B. S., Supt.

Archer Substa, P. O., Cheyenne—
D. B. Fritz, B. S., Supt.

Gillette Substa, P. O., Gillette—
||L. R. Landers, M. S., Supt.

Powell Substa, P. O., Powell—
Douglas Burke, M. S., Supt.

Jay Partridge, B. S., Soils Tech.

Torrington Substa, P. O. Torrington—
L. H. Paules, B. S., Supt.

Warren Smith, M. S., Soils Tech.

Sheridan Field Sta., (Coop U. S. D. A.)
P. O., Sheridan—
C. R. Hills, Actg. Supt.

P. O., Sheridan— C. R. Hills, Actg. Supt.

INDEX OF NAMES

(The letters "a" and "b" after page numbers indicate left and right columns of page, respectively)

A

Aakre, R. B., 67b. Aamodt, T. L., 65b. Aandahl, A. R., 38a. Aasheim, T. S., 75b. Abbott, F. H., 11b. Abbott, M., 102b. Abbott, O. D., 22a. Abbott, R. C., 76b. Abbott, R. W., 141a. Abel, G. H., 127a. Abell, M. F., 79b. Abington, Mrs. F., 51a. Abmeyer, E., 45a. Abrahams, M. D., 19a. Abrams, F. W., 141a. Abrams, G. J., 55a. Abrams, M. N., 124a. Abshier, G. S., 91b. Accola, R. C., 14a. Acker, G., 33a. Ackerman, R. A., 138a. Ackerson, C. W., 76b. Ackert, J. E., 46a. Ackley, W. B., 136b. Adair, C. R., 8b. Adam, E., 88b. Adams, C. A., Jr. 78a. Adams, C. H., 76a. Adams, E. C., 68b. Adams G. II. Adams H., 77b. Adams, H. W., 79b. Adams, J. A., 89a. Adams, J. C., 78b. Adams, J. E., 123a. Adams, J. L., 142b. Adams, J. M., 131a. Adams, L. E., 111b. Adams, M. W., 117a. Adams, O. R., 17a. Adams, O. L., 122a. Adams, P. G., 102b. Adams, R. L., 8a. Adams, T. M., 130b. Adams, V. E., 24b. Adams, W. E., 24a. Adams, W. R., Jr., 130b. Adamson, L. F., 33a. Addicott, F. T., 13b. Aderhold, O. C., 24a. Adler, H. E., 137a. Adriance, G. W., 125b. Adsuar, J., 113a. Aepli, D. C., 5b.

Afanasiev, M., 102b. Afanasiev, M. M., 74a. Agan, A. T., 45a. Agriesti, Mrs. S. A., 61a. Ahalt, A. M., 54b. Ahlgren, G. H. (Conn.), 19b. Ahlgren, G. H. (N. J.), 81b. Ahlgren, H. L., 139a. Aho, W. A., 62b. Ahrberg, F., 101b. Ahrens, M. C., 135b. Aicher, L. C., 46b. Aikin, A. M., 86a. Aikin, M., 129a. Aikman, J. M., 39a. Akin, Mrs. E. W., 55a. Ainslie, H., 84b. Aitken, L. B., 87a. Akamine, E. K., 28b. Aker, G. F., 70a. Akers, L. O., 72a. Akesson, N. B., 11b. Alban, E. K., 98a, 100b. Albaugh, R., 12a. Alberg, J., 41b. Albert, A. R., 142b. Albert, E. J., 133a. Albert, W. B., 115a. Albert, W. W., 123b. Alberts, J. O., 33b. Albertson, M. L., 15b. Albrecht, C. F., 60b. Albrecht, H. R., 108a. Albrecht, T. W., 120a. Albrecht, W. A., 73a. Albrectsen, R., 84b. Albritton, D. J., 8a. Albritton, R. C., 70b. Albury, M. N., 89a. Alcorn, G. B., 9a. Alcorn, P., 19b. Alderfer, R. B., 108a. Alderman, E. S., 20b. Alderman, W. H., 66a. Aldrich, D. G., 14b. Aldrich, R. J., 81b. Aldrich, S. R., 84a. Aldrich, W. W., 62a. Alemar, C., II. Alex, A. H., 124b. Alexander, A. M., 72b. Alexander, C. P., 57b. Alexander, E. D., 24a. Alexander, E. R., 124a. Alexander, J. D., 30b.

Alexander, J. S., 121b. Alexander, L., 97b. Alexander, L. E., 49a. Alexander, L. J., 96a, 99b. Alexander, Mrs. L. M., 3b. Alexander, Mrs. L. R., 25b. Alexander, M. A., 76a. Alexander, M. H., 31b. Alexander, R. M., 106a. Alexander, W. E., 94a. Alexander, W. H., 50a. Alexopoulos, C. J., 59a. Alford, S. W., 76a. Alfred, S. D., 34a. Alfredson, B. V., 63a. Alicata, J. E., 28b. Alison, M. W., 3b. Allan, D. P., 57b. Allard, R. W., 10b. Alleger, D. E., 21b. Allen, A. A., 85b. Allen, A. V., 90b. Allen, C. E., 106a. Allen, C. W., 132a. Allen, D. B., 131a. Allen, E., 34b. Allen, E. J., 7b. Allen, F. E., 80b. Allen, F. P., 115b. Allen, F. W., 12b. Allen, G. E., 45a. Allen, H., 93b. Allen, H. L., 141b. Allen, H. R., 48b. Allen, H. S., 72b. Allen, J. C., 38a. Allen, L., 9a. Allen, L. J., 106a. Allen, M. L., 72b. Allen, M. T., 36a. Allen, M. W., 9a. Allen, N., 117b. Allen, N. N., 140b. Allen, O. N., 140a. Allen, R. S., 39a, b Allen, R. W., 84a. Allen, T. C., 141a. Allen, T. L., 11a. Allen, W. S., 124a. Allgood, M. B., 110b. Allington, W. B., 78a. Allison, C. C., 96a. Allison, F., VII. Allison, J., 102b. Allison, J. H., 65b.

Allison, J. L., 91a. Allison, R. V., 23a. Allmendinger, D. F., 136b, 137b. Allred, Mrs. B. J., 48a. Allred, C. E., 120b. Allred, E. R., 65a. Allred, F., 126b. Allsbrook, W., 93b. Almquist, J. O., 109a. Almy, E. F., 96a. Alston, C., 6b, 7a. Alston, W. E., 1b. Alsup, E. B., 118b. Althouse, P. M., 109a. Altiery-Irizarry, J., 112b. Altman, L. B., 92b. Alvarez, A. A., 112a. Alvarez, L. A., 113a. Alverio-Pimentel, E., 112b. Alverson, H. D., 132b. Alvord, B. F., 1b. Alzamora, B., 112a. Amberson, J. D., 110b. Ameel, D. J., 46a. Ameniya, M., 14a. Amerine, M. A., 13a. Ames, R. B., 87a. Ames, R. W., 56a. Amick, G. M., 138b. Amick, H. C., 121a. Amick, W. R., 36b. Ammerman, J. P., 90b. Amsbaugh, J. L., 97b. Amstein, W. G., 45a. Amstutz, H. E., 98b. Amundson, G., 60b. Amy, A. S., 113b. Anacker, E., 74a. Anders, D. A., 110a. Anders, I. A., 121a. Anderson, A. (Miss.), 68b. Anderson, A. (Nebr.), 76b. Anderson, A. B., 9b. Anderson, Mrs. A. C., 77b. Anderson, Mrs. A. H., 139a. Anderson, A. K., 109a. Anderson, A. L., 39a. Anderson, A. T., 31b. Anderson, A. W., 118a. Anderson, B. R., 56a. Anderson, C., 136a. Anderson, C. B., 76b. Anderson, C. C., 138a. Anderson, C. S., 109b. Anderson, C. W., 21a. Anderson, D. B., 90a, 91a. Anderson, D. I., 81b. Anderson, E. E. (Mass.), 58a. Anderson, E. E. (N. Mex.), 83b. Anderson, E. J. (Mass.), 57a.

Anderson, E. J. (Pa.), 111b.

Anderson, E. M., 129b.

Anderson, E. O., 17b.

Anderson, E. W., 37b. Anderson, F. A., III, 14a, 16a, Anderson, Mrs. F. M., 83a. Anderson, G., 63a. Anderson, G. C. (Idaho), 29b. Anderson, G. C. (W. Va.), 137b. Anderson, G. M., 116b. Anderson, G. R., 29b. Anderson, G. W., 116b. Anderson, H. C., 135b. Anderson, H. E., 84a. Anderson, H. G., 95a. Anderson, H. W. (III.), 33b. Anderson, H. W. (La.), 50a. Anderson, J., 4a. Anderson, J. C., 81b. Anderson, J. E., 48b. Anderson, J. F., 58a. Anderson, J. H., 92a. Anderson, J. L. (Mass.), 56b. Anderson, J. L. (Tenn.), 120b. Anderson, J. U., 117a. Anderson, K., 95a. Anderson, K. L., 42a. Anderson, L., 25a. Anderson, L. C., 89b. Anderson, L. D., 14a. Anderson, Mrs. M., 25b. Anderson, M. A. (Iowa), 38a. Anderson, M. A. (N. Dak.), 95b. Anderson, M. G., 83a. Anderson, Mrs. M. L., 47b. Anderson, M. R., 65b. Anderson, N. J., 76b. Anderson, O. G., 58a. Anderson, P. A., 64a. Anderson, P. J., 19b. Anderson, P. O., 65b. Anderson, R., 92a. Anderson, R. C., 122a. Anderson, R. F., 26b. Anderson, R. H., 128b. Anderson, R. L., 93a. Anderson, R. M., 64a. Anderson, V. M., 40a. Anderson, W. A., 88b. Anderson, W. R., 100a. Anderson, W. S., 69b. Anderson, W. T., 34b. Andes, J. O., 122a. Andre, F., V, 38a, 40a. Andrew, F. W., 32a. Andrew, R. H., 139a. Andrews, A., 49b. Andrews, B., 51a. Andrews, E. A., 59a. Andrews, F. N., 34b. Andrews, F. S., 133a. Andrews, H. M., 23a. Andrews, J. B., 31b. Andrews, J. S., 27a. Andrews, L. E., 114a.

Andrews, L. J., 11a. Andrews, Mrs. L. P., 53b. Andrews, O. N., 1a. Andrews, S., IV. Andrews, W. B., 68a. Andrews, W. G., 93a. Angerer, C. L., 102a. Annin, G. E., 142b. Anslinger, C. B., 54b. Anspach, K. A., 40b. Antes, W. M., 77a. Anthon, E. W., 135b. Anthony, C. R., 74b. Anthony, E. L., IV, 59a. Anthony, J. L., 68a. Anthony, W. B., 124a. Antle, G. G., 103b. Antonie, G. O., 2b. Apodaca, S. D., 83b. Apple, J. L., 93b. Apple, J. W., 141a. Apple, S. B., 107a. Appleman, D., 13b. Applequist, M. B., 51a. Appleton, L. R., 83a, 84a. Arana-Soto, A., 112a. Arant, A., 92b. Arant, F. S., 3a. Arawinko, Z. M., 139a. Arbogast, F., 47a. Arbour, M. B., 50a. Arbuckle, A., 102b. Arbuckle, W. S., 54a. Arcelay-Walker, C. L., 112a. Arceneaux, R. L., 49a. Archer, K. C., 45a. Archibald, J. G., 56a. Ardrey, W. B., 30b. Arey, J. A., 90b. Ark, P. A., 10a. Arkley, R. J., 10b. Arm, D. L., VI. Armacost, R. R., 34b. Armentrout, W. W., 138a. Armer, W., 4a. Armes, M. J., 109b. Armistead, W., 121a. Armistead, W. W., 126a. Armour, M. L., 64a. Arms, M. J., 77a. Armstrong, A. E., 25b. Armstrong, Mrs. C. W., 133a. Armstrong, F. E., 28a. Armstrong, G. B., 33a. Armstrong, G. M., 115a. Armstrong, L. O., 92a. Armstrong, M. B., 88b. Armstrong, M. R., 121a. Armstrong, O., 102b. Armstrong, R. E., 40a. Armstrong, S. M., 62b. Armstrong, T. V., 97a. Armstrong, W. D., 48a. Arnandez, J. L., 70a. Arndt, C. H., 115a.

Arneman, H. F., 67a. Arnett, J. H., 21b. Arnette, R., 139a. Arnold, B., 103b. Arnold, B. L., 70b. Arnold, C. I., 59b. Arnold, C. Y., 33b. Arnold, Mrs. D. D., 2b. Arnold, F. J., 39a. Arnold, F. L., 125b. Arnold, H. A., 120b. Arnold, L. E., 21a. Arnold, M. L., 126a. Arnold, P. T. D., 21b. Arnold, R. K., 9b. Arnon, D. I., 10a. Arnrich, L., 9b. Arnsby, C., 23a. Arny, Mrs. C. B., 66a. Arny, D. C., 139a, 142a. Arojan, H. B., 133a. Aróstegui, F., 113a. Arrington, E. H., 7b. Arrington, L. B., 82b. Arthaud, A., 77b. Arthaud, R. L., 70b. Arthaud, V. H., 76a. Arthur, I. W., 39b. Arvold, A. G., 96b. Asbill, L. M., 115b. Ascham, L., 45a. Asdell, S. A., 84b. Ashby, R. K., 124b. Ashdown, D., 102b. Ashford, C. R., 70a. Ashley, T. E., 70b. Ashman, R. I., 53b. Ashton, C. D., 129b. Ashton, J., 57b. Ashworth, U. S., 135a. Asleson, J. A., 73a. Asmundson, V. S., 12b. Asquith, D., 111b. Atherton, H. V., 130a. Atherton, J. C., 7a. Atherton, R., 57a. Athow, K. L., 35a. Atilés, A., 112b. Atkeson, F. W., 43b. Atkin, E., 31a. Atkins, E. L., Jr., 14a. Atkins, I. M., 126b. Atkins, J. G., 49b. Atkins, R. E., 38a. Atkinson, C. H., 42a. Atkinson, E. A., 110b. Atkinson, T. E., 6b. Attaya, R. B., 51a. Atterbury, J., 4b. Attoe, O. J., 142b. Atwater, H. A., 122a. Atwood, F. J., 77a. Atwood, J. W., 114a. Atwood, R. B., 49a. Atwood, S. S., 88a.

Atzenhoffer, P., 89b. Aubel, C. E., 43a. Aubol, W. F., 78a. Augustine, G., 40b. Aulbach, J. J., 131a. Aulenbacher, A. D., 9a. Aull, G. H., 115b. Aunan, W. J., 64a. Aurand, L. W., 90b. Ausemus, E. R., 64a. Austin, C. M., 46a. Austin, H. C., 50b. Austin, R. E., 37a. Autrey, K. M., 1b. Avampato, J. E., 17b. Avens. A. W., 89a. Avery, D. J., 110b. Avery, G. A., 117a. Avery, H. G., 107b. Avery, T. B., 45b. Avilés, I., 113a. Avilés, M., 113b. Axelton, M. C., 42a. Axinn, G. H., 20a. Axley, J. H., 54a. Avcock, R., 117a. Ayers, A. R., 32a. Ayers, I. L., 20b. Ayers, J. C., 85b. Ayres, J. C., 39a. Ayres, Q. C., 40a Ayres, W. L., VI. Awada, M., 28b.

В

Babb, M. F., 4a. Babcock, M. J., 80a. Babcock, W. E., 107b. Babel, F. J., 35b. Babin, W. M., 50b. Bachman, B. A., 58b. Bachtell, M. A., 99a. Back, W. B., 47a. Backus, Mrs. L. K., 61a. Backus, M. P., 142a. Bacon, A. S., 27a. Bacon, M., 121a. Bacon, M. J., 114a. Bacon, O. G., 9a. Bacon, R. J., 20a. Bacot, N. L., 50a. Badenhop, M. B., 120b. Badger, C. J., 30b. Badger, M. M., 80b. Baehr, W. F., 46a. Baerg, W. J., 7a. Baeza, M. A., 8a. Bagby, J., 2b. Bagdonas, V., 76a. Bahler, T. L., 129b. Bailey, C. H. (Minn.), V, 64a, b. Bailey, C. H. (N. J.), 81b. Bailey, E. Z., 88a.

Bailey, F. E., 130b. Bailey, H. G., 81b. Bailey, J. E., 27b. Bailey, J. S., 58a. Bailey, L. F., 120a. Bailey, M. L., 60b, 62b. Bailey, R. A., 99b. Bailey, R. L., 139a. Bailey, R. M., 52a, 53b. Bailey, R. S., 27a. Bailey, S. F., 11b. Bailey, S. H., 107a. Bailey, W. H., 93b. Bailey, W. K., 26a. Bailey, W. S., 3a. Bain, D. C., 70b. Bainer, R., 11b. Baines, R. C., 14b. Baird, G. T., 128a. Baird, H. C., 44b. Baird, M., 144a. Baird, V. N., 93b. Baker, A. L., 110a. Baker, C. B., 74b. Baker, C. E., 37b. Baker, D. L., 42a. Baker, E., 48a. Baker, E. D., 81a. Baker, E. R., Jr., 183a. Baker, F. S. (Calif.), 8a, 9b. Baker, F. S. (Fla.), 23a. Baker, G., (Maine), 53b. Baker, G. (Mont.), 74a. Baker, G. A., 12a. Baker, G. L., 20a. Baker, G. N., 78b. Baker, G. O., 29a. Baker, H. A., 51a. Baker, H. J., 20b. Baker, H. L., 44a. Baker, H. R., 5a. Baker, I. L., 92a. Baker, J. M., 50a. Baker, J. N., 104a. Baker, J. P., 118a. Baker, K. F., 13b. Baker, K. G., 3b. Baker, L. O., 75b. Baker, M. L., V, 75a, 76a, 78b. Baker, M. P., 39b. Baker, O. J., 127a. Baker, R. B., 72a. Baker, R. C., 88b. Baker, R. E., 12b. Baker, R. H., 97a, 99b. Baker, R. L., 39b. Baker, T. A., 20a. Baker, T. N., Jr., 133a. Baker, V. H., 132a. Baker, W. K., 122b. Bakke, A. L., 39a. Bakken, H. H., 140b. Balbach, P. I., 35a. Balch, M. O., 52b.

Bald, J. G., 13b. Baldridge, D. E., 75b. Baldridge, J. D., 72a. Baldwin, H. W., 18a. Baldwin, P. H., 17b. Ball, C. O., 81b. Ball. E., 91a. Ball, Mrs. E. L., 29a. Ball, P. C., 59b. Ball, R. C., 64a. Ball, W. B., 48b. Ballantyne, A. B., 5a. Ballard, C. V., VI, 59a, 60b. Ballard, F. L., VI, 104a, 106a. Ballard, J. C., 129b. Ballard, W. W., 26a. Ballentine, C., 116b. Ballew, B. T., 104b. Ballirano, T., 114a. Ballou, E. E., 83b. Ballou, H. W., 72b. Balmat, J. L., 82b. Baltzer, A. C., 59b. Baltzer, B., 63a. Bamer, F. G., 108a. Bamesberger, E. O., 58a. Bamford, R., VII, 54a. Banadyga, A. A., 93b. Banasik, O. J., 96a. Bancroft, C. M., 97b. Bancroft, T. A., 42a. Bandemer, S. L., 59a. Banfield, W. M., 56a. Bangham, E., 141b. Banghart, J. A., 15a. Bankowski, R. A., 13a. Banks, H. P., 85a. Banks, N. N., 94a. Banks, W. C., 126a. Banner, A. H., 29b. Banning, J. W., 36b. Banta, L., 58b. Banton, J. M., 53a. Baragar, A. E., 77b. Barbee, C. E., 11b. Barbee, L. E., 94a. Barber, E., 102b. Barber, J. W., 30a. Barber, S. A., 34a. Barden, R. D., 97a. Bardwell, E. T., 80b. Bare, O. S., 77a. Barger, E. L., 40a. Barger, J. W., 124a. Barham, H. N., 43b. Barham, J. F., 73b. Barham, W. S., 93a. Barkalow, F. S., Jr., 91a. Barker, E., 42b. Barker, H. A., 10a. Barker, P. C., 9a. Barker, R. D., 144a. Barker, W. J., 116b. Barkley, K. L., 92a. Barkley, M. R., 48a.

Barkman, J. O., 46b. Barlow, H. W., III, VII. Barlowe, R., 60a. Barmington, R. D., 15b. Barmore, M. A., 134b. Barnard, E. E., 75a. Barnard, H. M., 72b. Barner, R., 63a, Barnes, B. W., 139a. Barnes, E. E., 99a. Barnes, E. O., 7b. Barnes, G. W., 124b. Barnes, H. M., 96a. Barnes, Mrs. J. W., 45a. Barnes, K. K., 36a. Barnes, L. H., 97a. Barnes, L. L., 84b. Barnes, M. C., 102b. Barnes, M. M., 14a. Barnes, O. K., 143a. Barnes, T. E., 34a. Barnes, W. C., 117b. Barnett, A. P., 24b. Barnett, B. F., 35b. Barnett, G. M., 115b. Barnett, H. L., 138b. Barney, C. W., 16a. Barnhart, C. E., 46b. Baron, M., 62a. Barr, C. W., 62a. Barr, G. W., 5a. Barr. H. T., 50b. Barr, P. M., 9b. Barr, W. F., 30a. Barr, W. L., 109b. Barraclough, K. E., 80a. Barre, H. J., 36a. Barrentine, B. F., 68a. Barrett, D. R., 125b. Barrett, F. N., 62b. Barrett, G. R., 140b. Barrett, H. C., 33b. Barrett, J. E., Jr., 3b. Barrett, J. H., 87b. Barrett, M. L., 85a. Barrett, P. M., 59b. Barrett, R. H., 57a. Barrett, R. L., 83a. Barrett, W. C., 128b. Barrick, E. R., 90b. Barron, C. B., 70a. Barron, G. P., Jr., 108b. Barrus, Mrs. E. Y., 22a. Barshad, I., 10b. Bartholomew, R. P., V, 6a. Bartholomew, W. V., 38a. Bartle, E. H., 119a. Bartlett, B. R., 14a. Bartlett, C. E., 44a. Bartlett, D. E., 67a. Bartlett, H. D., 53a. Bartlett, J. W., 80b, 83a. Bartlett, K. A., II. Bartlett, R. W., 31b. Bartley, Mrs. C. H., 79a.

Bartley, E. E., 43b. Bartley, R. L., 22b. Bartley, T. F., 42a. Barto, H. T., 33a. Barton, D., 121a. Barton, J. R., 142b. Barton, Mrs. M. B., 110b. Barton, O. A., 94b. Barton, P. S., 79a. Barton, R. R., 100b. Barton, T. A., 62a. Barton, W. V., 25b. Bartoo, R. A., 110a. Bartow, Mrs. M. L., 28b. Barwick, J. A., 70b. Bashaw, E. C., 52b. Basherov, S., 112a. Basinger, A. J., 14a. Baskett, T. S., 73b. Bass, B. C., 132a. Bass, G., 3a. Bass, L. N., 39a. Bassett, D. L., 128b. Bastian, E., 97b. Bastin, G. M., 46b. Batchelder, D. T., 9a. Batchelder, R. M., 131b. Batchelor, E. M., 45a. Batchelor, L. D., 8a. Batcher, O. M., 33a. Bate, E. B., 102b. Bate, W. L., 23a. Bateman, B. A., 51a. Bateman, G. Q., 128b. Bateman, H. P., 32a. Baten, W. D., 64a. Bates, C. H., 124a. Bates, D. W., 86a. Bates, E., 86b. Bates, K. S., 7a. Bates, M. E., 57a. Bates, R. P., 127a. Batson, F. S., 69b. Batte, E. G., 22b. Batten, E. T., 133b. Battle, W. R., 81b. Battles, K. V., 97a. Bauder, W. W., 48b. Bauer, A. C., 28b. Bauer, A. H., 109a. Bauer, F. C., 31a. Baugh, E. R., 38b. Baugh, L. G., 47b. Baughman, G. F., 21a. Baughman, N. M., 137a. Baughn, C. G., 12b. Bauknight, L. M., 115b. Baum, E. L., 135a. Bauman, C. G., 103b. Bauman, R. H., 35b. Bauman, W. E., 101a. Baumann, C. A., 140a. Baumeister, G. F., 141a. Baumel, C. P., 99b. Baumer, E. F., 100a.

Baumgartner, R. E., 55b. Baur, K. E., 134a. Bausman, R. O., 20b. Baxter, W. M., 46b. Bay, M. S., 16b. Bay, O. V., 71b. Bay, W. W., 37b. Bayles, J. J., 126b. Bayley, N. D., 140b. Bayliss, B., 74a. Baylor, J. E., 81b. Bayne, T. L., Jr., 86a. Bayor, S., 61a. Bayron, H., 113a. Baxter, G. T., 144b. Beach, B. A., 142b. Beach, G. A., 16b. Beach, J. R., 13a. Beach, W. S., 109a. Beachell, H. M., 126b. Beacher, R. L., 6a. Beadle, B. B., 65b. Beal, G. M. (Iowa), 39b. Beal, G. M. (Md.), 54b. Beale, C., 21b. Beale, O. W., 115a. Beall, T., 97b. Beam, A. L., 108a, 109a. Beamer, L. C., 133a. Beamer, P. D., 33b. Beamer, R. W., 120b. Bean, H. W., 30a, 31a. Bean, R. R., 42b. Beanblossom, F. Z., 125b. Bear, F. E., 82b. Beard, R. L., 19a. Beard, R. M., 97b. Bearse, G. S., 137a. Beasley, C., 121a. Beasley, H. E., 7a. Beasley, J. N., 6a. Beasley, R. P., 71b. Beath, O. A., 144a. Beattie, J. M., 100b. Beattie, J. R., 58a. Beatty, C. A., 130b. Beaty, H. H., 40a. Beaty, Mrs. O. W., 84a. Beaudette, F. R., 82a. Beaumont, J. H., 28b. Beaumont, R. T., 108a. Beaven, W. C., 54b. Beavers, A. H., 31a. Bebermeyer, P. H., 71b. Bebout, H., 124a. Beck, E. G., 24a. Beck, F. V., 81a. Beck, G. E., 142a. Beck, G. H., 43b. Beck, J. R., 106a. Beck, J. V., 108b. Beck, L. D., 94a. Beck, R. S., 135a. Beck, S. D., 141a. Beck, W. J., 101b.

Beckam, J. B., 123b. Beckenbach, J. R., 21a. Becker, C. A., 109b. Becker, C. F., 143a. Becker, D. E., 31a. Becker, H. C., 37a Becker, H. L., 77a. Becker, M. H., 105a. Becker, R. B., 21b. Becker, W. B., 57b. Beckham, C. M., 26b. Beckman, C. H., 142a. Beckstrom, J. E., 31b. Beckwith, C. L., 141b. Beckwith, S. L., 22a. Bedenbaugh, P. G., 68a. Bedford, C. L., 62a. Beecher, A. S., 133a. Beecroft, D. E., 5a. Beede, V. A., 110a. Beegle, J. A., 62b. Beekler, A. F., 75a. Beeler, R. S., 142a. Beeman, M. E., 37a. Beer, J. R., 65b. Beers, H. W., 48b. Beers, N. E., 74b. Beese, C. W., III, VI, VII. Beese, R. S., 111b. Beeskow, H. C., 59a. Beeson, K. C., 84a. Beeson, K. E., 34a. Beeson, W. M., 34b Beetle, A. A., 143a. Begg, E. L., 10b. Beggs, A. F., 80a. Begin, J., 46b. Behr. L. C., 68b. Behre, E. H., 51b. Beidleman, R. G., 17b. Belcher, J. C., 103b. Belding, R. C., 63a. Belkengren, R. O., 105a. Belkin, J. N., 13b. Bell, A. E., 37b. Bell, A. J., 60b. Bell, C. E., Jr., 24a. Bell, C. H., 70b. Bell, D. S., 99a. Bell, E. W., 57a. Bell, F., 27a. Bell, F. F., 119a. Bell, F. J., 90a. Bell, F. W., 43a. Bell, H. K., 81b. Bell, I. L., 25a. Bell, J. P., 2b. Bell, L. E., 59b. Bell, M., 7b. Bell, M. A., 75b. Bell, R. S., 114a. Bell, R. W., 61a. Bell, T. A., 93a. Bell, T. D., 43a. Bell, T. M., 70a.

Bell. W. B., 131b. Bell, W. E., 138a. Bellaflores, Mrs. H. I., 112b. Belle, G., 50b. Belmear, Mrs. G., 139a. Belton, H. L., 11b. Benbrook, E. A., 42a. Benbrook, S. C., 73a. Bender, C. B., 80b. Bender, E. K., 55b. Bender, L. M., 118a. Bender, R. E., 97a. Bendixen, H. A., 135a. Benedict, M. R., 8a. Benedict, R. H., 7a. Beneke, E. S., 59a. Beneke, R. R., 39b. Benítz, J., 111a. Benjamin, M., 17a. Benn, H. W., 144b. Benn, P., 112a. Benne, E. J., 59a. Benner, J. W., 83a. Bennett, C., 104a. Bennett, C. C., 115a. Bennett, E., 56b. Bennett, F. W., 24a. Bennett, G., 110b. Bennett, H. H., IV. Bennett, H. J., 51b. Bennett, H. W. (Ga.), 26a. Bennett, H. W. (Miss.), 68a. Bennett, J. A., 128a. Bennett, J. P., 10a. Bennett, Mrs. J. T., 51b. Bennett, L. (N. C.), 92a. Bennett, L. (Tex.), 124b. Bennett, P. C., 42a. Bennett, R. G., 24b. Bennett, R. R., 90a. Bennett, W. H., 128a. Bennion, M. P., 129a. Bennion, N. L., 107b. Bennitt, K. E., 9a. Bensend, D. W., 40b. Bensin, B. M., 4a. Benson, D. V., 73a. Benson, J., 16b. Benson, N. R., 134a. Benson, U. H., 124b. Bent, H. E., VII. Bentley, F. L., 108a. Bentley, L., 48a. Bentley, O. G., 99a. Bentley, R. C., 39b, 41b. Bentley, R. R., 36a. Benton, C. L., 54a. Bentz, F. L., Jr., 54a. Berenson, E. G., 135b. Beres, L. B., 92a. Beresford, B. C., 67b. Beresford, H., 40a. Beresford, H. E., 130b. Beresford, R., 39a. Berg, H. A., VI, 59a, 60b.

Berg. H. W., 13a. Berg, L. R., 137a. Berg, P. W., 36a. Berge, O. I., 141a. Berger, K. C., 142b. Berggren, F. E., 36a. Berggren, G. H., 108a. Bergman, H. D., VIII, 42a. Berly, J. A., 116b. Berman, D. T., 142b. Berndt, W. L., 118b. Bernier, P. E., 107b. Berntson, B. J., 95a. Berntson, R. E., 128a. Berousek, E. R., 102a. Berridge, A. M., 64b. Berrier, H. H., Jr., 73b. Berry, E., 97b. Berry, E. C., 118a. Berry, E. G., 108b. Berry, H., 126a. Berry, L. N., 84a. Berry, M. O., 2a. Berry, R. L., 118a. Berry, R. M., 116b. Berry, R. O., 123b. Bertone, E. B., 15a. Bertram, F. E., 1a. Bertramson, B. R., 134a. Bertrand, A., 34a. Bertrand, A. L., 51b. Berwick, L., 49a. Besley, H. E., 81a. Bess. H. A., 28a. Besse, R. S., V. 104a, 105b. Bessom, M. L., 110b. Betances, M. L., 113b. Bethea, R., 63a. Bethel, J. S., 92b. Bett, H. W., 77b. Betton, T. R., 7a. Bevan, L. A., 79a, 80a. Bevan, R. C., 30a. Bever, W. M., 31a. Beverage, R. M., 114a. Bevis, H. L., IV, 96a. Bevis, J., 22a. Bewick, L., 77a. Beyer, F. K., 53b. Beyer, G. H., 87b. Bezoni, R. H., 73b. Biaggi, V., Jr., 112a. Biale, J. B., 13b. Bice, C. M., 29a. Bice, S. A., 15b. Bickham, P. I., 23a. Bickley, W. E., 55a. Biddulph, C., 129b. Biddulph, O., 134b. Bidez, P. R., 1b. Bidwell, O. W., 42a. Bieberdorf, G. A., 102b. Bieberly, F. G., 42a. Biebricher, A. P., 97b. Biehler, W. E., 10b.

Biekart, H. M., 81b. Biel, E. R., 82a. Biellier, H. V., 72b. Biester, A., 66a. Biester, H. E., 42a. Bigay, E. M., 112b. Bigelow, C. R., 89a. Biggar, C., 119a. Biggs, E. J., 121a. Bilger, E. M., 28a. Bilger, Mrs. L. N., 28a. Billings, B. E., VII, 57b. Billings, W. A., 67a. Billings, W. D., 78a. Bilsing, S. W., 124b. Binder, L. O., Jr., 74a. Bing, A., 87a. Bingham, C. H., 110a. Bingham, G. H., 128b. Binkley, A. M., 16b. Binkley, W. C., 48b. Binney, T. H., 35b. Binns, W., 129b. Bird, E. W., 39b. Bird, J., 113a. Bird, J. J., 122a. Bird, J. M., 122b. Bird, L. S., 125b. Bird, R., 138a. Birkeland, C. J., 33b. Birkett, A., 136a. Birky, C. W., 15b. Birong, E. M., 74b. Birth, A. K., 109b. Bishop, A. A., 128b. Bishop, C. E., 91b. Bishop, C. F., 138b. Bishop, G. N., 25a. Bishop, J. C., 13a. Bishop, M. L., 121a. Bishop, T., 57b. Bishop, T. W., 125b. Bishop, W. D., 119a. Bissell, L. P., 53b. Bissell, T. L., 55a. Biswell, H. H., 9b. Bitters, W. P., 14b. Bittle, C. M., 8b. Bittner, C. S., 111a. Bivins, J. A., 82a. Bjerke, H., 65a. Bjoraker, W. T., 141a. Bjork, E. W., 118b. Bjorklund, H. A., 80a. Black, A., 108b. Black, A. L., 3a. Black, A. P., 21a. Black, C., 93b. Black, C. A., 38a. Black, C. E., 63a. Black, D. E., 52b. Black, D. S., 108b. Black, G., 8a. Black, J. J., 82a, 83b. Black, L. S., 33a.

Black, R. H., 137b. Black, S. D., 110b. Black, T. R., 123b. Black, W. E., 140b. Black, W. G., 141b. Blackburn, N. D., 111b. Blackburn, T. R., 15a. Blackhurst, H. T., 125b. Blackman, C. L., 96b. Blackmon, Mrs. A. A., 7b. Blackmon, G. H., 22a. Blackmore, B., 88b. Blackstone, J. H., 1b. Blackwell, B., 124b. Blackwell, C. M., 93b. Blackwell, Mrs. M., 106b. Blackwell, S. E., 87b. Blackwell, W. D., 51a. Blair, Mrs. M. H., 25b. Blaisdell, M. L., 56a. Blake, G., 93b. Blake, G. R., 82b. Blake, L. P., 132b. Blaker, G., 88a. Blakeslee, L. H., 59a. Blakley, L. V., 102a. Blalock, T. J., 91b. Blanch, G. E., 105a. Blanch, G. T., 128b. Blanchard, J. R., 78b. Blanchet, R. M., 48b. Blaney, L. T., 107a. Blaney, R. C., 110a. Blank, G. L., 59a. Blank, L., 84b. Blasberg, C. H., 131b. Blaser, R. E., 131a. Blasingame, R. U., 110a. Blauser, I. P., 97a. Blauvelt, W. E., 86b. Blaydes, G. W., 96b. Blecha, F. O., 44c. Bledsoe, R. W., 21a. Blegen, M., 29a. Blegen, T. C., VII. Bletner, J. K., 137b. Blewett, E. Y., 1II. Blickle, J. D., 97a. Blickle, R. L., 80a. Blincoe, C. R., 71a. Bline, D. F., 36a. Bliss. A. M., 5t. Bliss, C. I., 19b. Bliss. D. E., 14b. Bliss, M. E., 142a. Bliss, R. K., 42b. Blizzard, S. W. 199b. Blizzard, W. L., 101a Blodgett, E. C., 136b. Blodgett, F. M., 88a. Blood, P. T., 79a. Bloodgood, J. A., 82b. Bloodworth, M. E., 127b. Bloom, A. R., 141b. Blore, Mrs. I. C., 76a.

Blosser, R. H., 100a. Blosser, T. H., 135a. Blount, C. L., 70b. Blow, W. L., 93a. Bloye, A. L., 37a. Blue, W. G., 22b. Bluford, F. D., 94a. Blum, G., 92a. Blumer, T. N., 90b. Blundell, L. L., 58a. Blunn, C. T., 76a. Blv. E. S., 108b. Boal, R. S., 138a. Boas, M., 57b. Boatman, Mrs. E. M., 28b. Bobb, A. C., 18b. Bobb, M. L., 131b. Bobula, P. F., 58a. Bockstahler, H. W., 61a. Bode, C. E., 99a. Bodensteiner, L. J., 39b. Bodman, G. B., 10b. Bodwell, M., 60a. Boehnke, G. E., 40b. Boehr, J. W., 102a. Boelter, L. M. K., VII, 11b. Bogart, R., 104a. Boger, L. L., 60a. Boggess, W. R., 32b, 34a. Boggs, A. M., 138a. Boggs, I. B., 138a. Boggs, K. B., 102a. Bohanan, E. L., 122b. Bohanan, L. B., 54b. Bohart, G. E., 129b. Bohart, R. M., 11b. Bohl, E. H., 98b. Bohmont, D. W., 143a. Bohning, R. H., 96b. Bohren, B. B., 37b. Bohrod, A., 142b. Bohstedt, G., 140a. Boicourt, A. W., 58a. Bolender, E. O., 97a. Bolin, D. W., 94a. Bolin, F. M., 94b. Bollen, W. B., 105a. Boller, C. A., 107a. Bolling, L. B., 110b. Bollinger, C. O., 93b. Bolton, W. D., 130a. Bolyard, H. L., 138b. Bond, C. E., 106a. Bond, G. E., 114a. Bond, M. C., 85b. Bonde, R., 53b. Bondurant, B. L., 18a. Bondurant, J. H., 47a. Bone, J. F., 107b. Boneta, E., 113a. Bonewitz, E. R., 43b. Boney, K. M., 21a. Boney, W. A., Jr., 126a. Bonilla, R. A., 111a. Bonnell, D. E., 66a.

Bonnen, C. A., 124a. Bonner, F. L., 50b. Bonner, L. G., 104a. Bonner, L. W., 3a. Bonnet, J. A., 113b. Bonnett, O. T., 31a. Bonser, H. J., 120b. Bonzer, B. J., 119a. Booher, L. J., 12a. Bookbinder, C. C., 66a, Booker, L. R., 116a. Bookhout, B. R., 60a. Books, A. B., 5a. Boone, Mrs. F. M., 7b. Boone, M. A., 116b. Boord. K. R., 139a. Booth, N. H., 17a. Booth, W. E., 74a. Boothroyd, C. W., 88a. Bopst, L. E., 55b. Borchers, R. L., 76b. Borden, A. D., 9a. Border, M. E., 44b. Borders, H. I., 27b. Borge, D., 143a. Borgeson, C. R., 64a. Borgman, B. D., 61a. Bork, H. A., IV. Borror, D. J., 98b. Borst, H. L., 99a. Bortfeld, C. F., 44a. Bortner, C. E., 46a. Borton, R. K., 33b. Bortree, A. L., 108a. Boseck, J. K., 3b. Bostian, C. H., VI, 90a, 91a. Boston, A. D., 83a. Boswell, S. B., 12a. Botsford, H. E., 88b. Botsford, M. H., 28b. Botsford, R. A., 19a. Bottoms, D. N., 2a. Bottum, J. C., 35b. Boucher, L. W., 97a. Boucher, R. V., 109a. Boughton, I. B., 125b. Bourbeau, G. A., 19b. Bourg, C., 75a. Bourg, T., 50b. Bourne, A. I., 57b. Bourne, W. C., 73a. Boush, C. M., 131b. Bouthilet, R. J., 10b. Bouton, K. A., 80a. Boutwell, Mrs. A. S., 69b. Bouyoucos, G. J., 62b. Bovie, J. A., 110b. Bowden, R. A., 25b. Bowen, C. M., 129a. Bowen, R. L., 69b. Bowen, W. C., 116a. Bower, R. M., 110b. Bowers, F. A., 28b. Bowers, F. P., 120b. Bowers, H. A., 116b.

Bowers. H. M., 138a. Bowers, J. C., 22b. Bowers, J. L., 69b. Bowery, T. G., 80a. Bowles, E. S., 79b. Bowman, A. E., 143a, 144a. Bowman, D. H., 70b. Bowman, F., 16b. Bowman, F. L., 63a. Bowring, J. R., 79b. Box, J., 127a. Box. S. W., 69b. Boyce, A. M., 14a. Boyce, D. L., 126a. Boyce, E. F., 130a. Boyce, S. L., 82b. Boyd, G., 136a. Boyd, G. A., 122b. Boyd, J. C., 29b. Boyd, J. D., 70a. Boyd. J. E., 119a. Boyd, J. H., 28a. Boyd, J. S., 60b. Boyd, L. L., 86a. Boyd, N. C., 25b. Boyd, O. C., 56a. Boyd, V. A., 115b. Boyd, W. L., 67a. Boyden, R. E., 48a. Boyer, C. I., Jr., 27a. Bover, P. D., 64b. Boyette, Mrs. G., 69b. Boykin, G. L., VI, 83a, b. Boylan, M. G., 62b. Boyle, Mrs. A. M., 5b. Boyle, F. P., 89a. Boyle, J. S., 109a. Boyle, L. W., 26a. Boyle, W. S., 128a. Boyles, R. M., 84a. Boylston, H. G., 115a. Boynton, C. H., 79b. Boynton, D., 88b. Bozeman, A. L., 133a. Braamse, L. J., 59b. Bracher, M., 124b. Brackeen, L. O., 2a. Bracken, F. K., 17a. Bracken, J. R., 111a. Brackett, T., 80b. Brackney, C. T., 29a. Braddock, J. C., 64a. Bradfield, A., 130a. Bradfield, R., 84a. Bradford, D. H., 49a. Bradford, G. R., 14b. Bradford, L. A., 47a. Bradford, M. K., 127a. Bradley, C., 70b. Bradley, J. C., 86b. Bradley, K. A., 18b. Bradley, L. A., 56a. Bradley, R. A., 133b. Bradley, W. P., 132a. Bradshaw, P. P., 81b.

Bradt, C. G., 84b. Brady, D. E., 70b. Brady, N. C., 84a. Brady, R. E., 50b. Brage, B. L., 117a. Bragg, D. D., 133a. Bragg, J. D., 96a, 99a, Bragonier, W. H., 39a. Braithwaite, R. C., 85a. Brakel, W. J., 96b. Bramble, W. C., 110a. Branaman, G. A., 59a. Branch, F. H., 57a. Brandenburg, N. R., 105b. Brandly, C. A., VIII, 142b. Brandner, H. J., 140b. Brandon, J. F., 17b. Brandon, Mrs. V. H., 104a, Brandow, G. E., 109b. Brandt, B. B., 91a. Brandt, C. D., 58b. Brandt, C. S., 84a. Brandt, G. W. 115b. Brandt, I. L., 40b. Brandt, P. M., 105a. Branegan, G. A., IV, 97b, 100a. Brann, J. L., Jr., 86L Brannon, C. C., 115b. Brannon, D. H., 135b. Brannon, L. H., 102b. Branson, J. W., III, 83a. Brantley, B. B., 27a Brantley, E. R., 52a. Branton, C., 50a. Branton, C. I., 4b. Brase, K. D., 89b. Brashear, Mrs. V., 106b. Brasher, E. P., 20b. Bratcher, G., 101b. Bratley, H. E., 21b. Bratton, C. A., 85b. Bratton, Mrs. E. C., 86a. Bratton, R. W., 84b. Bratzler, J. W., 108b. Bratzler, L. J., 59a. Brau, H. M., 113b. Braucher, P. F., 55a. Braud, H. J., 50a. Braun, A. J., 89b. Bray, R. H., 31a. Bray, R. W., 140a. Breakey, E. P., 135b. Breazeale, D. F., 118a. Breazeale, E. L., 5a. Bregger, T., 23a. Brehm, C. E., 119a. Brehm, L., 40b. Breiding, G. H., 139b. Breithaupt, L. R., 105a. Brekke, A., 11b. Brekke, J. E., 95b. Breland, H. L., 31a. Brence, J. L., 74a.

Brenes. A., 112a. Brennan, E. G., 82a. Brennan, R. E., 121a. Brensing, O. H., 101a. Brent, C., 72b. Brent, J. T., 68b. Brentzel. W. E., 96a. Bressler, G. O., 111b. Bressler, R. G., Jr., 8b. Brett, C. H., 102b. Bretz, Mrs. J., 75a. Bretz. T. W., 71a. Brevik, T. J., 60b. Brewer, H. E., 134b. Brewer, P. H., 35a. Brewer, T., 94a. Brewer, W. D., 61a. Briant, A. M., 87a. Brichetto, T., 37a. Brickhouse, C. M., 92b. Bricknell, C. A., 56a. Bridges, C. H., 51b. Bridgford, R. O., 67b. Bridgman, M. A., 54b. Bridgmon, G. H., 144b Brier, S., 61a. Brierley, W. G., 66a. Briggle, L., 95b. Briggs, D. R., 64b. Briggs, F. N., 10b. Briggs, G. M. (Minn.), 66b. Briggs, G. M. (Wis.), 139b. Briggs, H. M., 143a. Briggs, J. E., 34b. Briggs, M. (Ill.) 33a. Briggs, M. (Mass.), 58a. Briggs, Mrs. M. A., 114a. Briggs, R. A., 81b. Briggs, R. P., IV. Briggs, V., 45a. Brigham, W. T., 19a. Brightwell, W. T., 27b. Brigman, H. P., 93a. Briles, W. E., 125b. Brill, G. D., 66a. Brill, M., 45a. Brimhall, L. L., 5a. Brindley, T. A., 42b. Brine, C., 114b. Brinegar, G. K., 18a. Brinegar, M. J., 76a. Bringhurst, R. S., 14a. Brink, B. W., 73a. Brink, R. A., 141b. Brinker, W. O., 63a. Brinkerhoff, L. A., 101b. Brinkman, K. A., 40b. Brinton, R. K., 11a. Brison, F. R., 125b. Bristol, W. M., 135a. Brite, F. S., 126b. Britt, F. L., 23a. Britten, E. J., 28a. Brittingham, W. H., 125b. Britton, C. C., 15b.

Britton, M., 72b. Briwa, K. E., 53b. Broach, Mrs. R. T., 25b. Broadbent, D. A., 128a, b. Broadbent, E. E., 31b. Broadbent, F. E., 84a. Broadbent, M., 128a. Broadnax, M., 139a. Broady, K. O., III. Brock, F. D., 125a. Brock, J. L., 116a. Brock. M., 69b. Brockseker, C. W., 24b. Brockway, H. A., 6b. Brody, S., 71a. Brogden, C. A., 3b. Bronfenbrenner, U., 85a. Brook, T. S., 126b. Brooke, D. L., 21b. Brooker, D. B., 36a. Brooker, M. A., 21b. Brookover, W., 62b. Brooks, A. N., 21a. Brooks, B., 97b. Brooks, B. L., 74b. Brooks, B. P., 69a. Brooks, C. M., 51b. Brooks, D. L., 103b. Brooks, E. T., 23a. Brooks, F. A., 11b. Brooks, G. N., 143b. Brooks, J., 121a. Brooks, J. B., 47b. Brooks, J. E., 77b. Brooks, J. H., Jr., 22a. Brooks, J. S., 101a. Brooks, L. A., 141a. Brooks, L. E., 126b. Brooks, M., 85a. Brooks, M. G., 138b. Brooks, M. S., 124a. Brooks, O. L., 27b. Brooks, P. (Ala.), 3b. Brooks, P. (Okla.), 104a. Brooks, R. F., 71a. Brooks, R. M., 12b. Brooks, S. N., 75b. Broten, P. R., 87b. Brotherton, C. B., 74b. Brotten, R., 61a. Brought, R. R., 130b. Brouse, E. M., 78b. Browder, W. J. R., 7a. Brower, D. E., 131a. Brown, A. A., 57a. Brown, A. D., 36a. Brown, A. J. (Ky.), 48a. Brown, A. J. (S. C.), 115a. Brown, A. L. (Ariz.), 5a. Brown, A. L. (Calif.), 12b. Brown, A. R., 24a. Brown, Mrs. A. T., 55a. Brown, B. A., 18b. Brown, B. E., 57a. Brown, C. A., 49b.

Brown, C. D., 47b. Brown, C. J., 6a. Brown, C. J. D., 75a. Brown, D. A., 6a. Brown, D. C., 143b. Brown, D. D., 91b. Brown, D. P., 138a. Brown, D. S., 12b. Brown, E. E. (Oreg.), 108a. Brown, E. E. (Tex.), 123a. Brown, E. J., 109b. Brown, E. M., 72a. Brown, Mrs. F., 77b. Brown, G. A., 59a. Brown, G. E., 139a. Brown, G. G., 107b. Brown, H. D., 98a, 100b. Brown, H. E., 71b. Brown, H. I., 131a. Brown, H. M., 61a. Brown, J. B., 48b, 49a. Brown, J. F., 90b. Brown, J. G. (Ariz.), 5b. Brown, J. G. (Calif.), 12b. Brown, J. S., 48b. Brown, K. G., 14a. Brown, L., 2a. Brown, L. A., 48b. Brown, L. G., 115a. Brown, L. H., 60a. Brown, L. N., 9a. Brown, L. R., 13b. Brown, M., 32a. Brown, M. H., 131a. Brown, M. S., 123a. Brown, O., 3b. Brown, O. A., 92a. Brown, O. K., 30a. Brown, P., 114b. Brown, P. L., 46b. Brown, Mrs. P. R., 127a. Brown, R. G. (Ky.), 47a. Brown, R. G. (Md.), 54a. Brown, R. H., 24b. Brown, R. M., 65b. Brown, R. R., 57a. Brown, R. T., 52a. Brown, R. W. (Colo.), 16b. Brown, R. W. (Minn.), 67a. Brown, S., V, 101a, 102b. Brown, S. A., 138b. Brown, S. O., 123b. Brown, S. W., 9b. Brown, T. T., 93a. Brown, V. L., 3b. Brown, W., II. Brown, W. N., 33b. Brown, W. S., 24a 25a. Brown, W. W., 22a. Browne, E. B., 24a, 25b. Brownell, S. J., 84b. Brownfield, W. W., 97b. Browning, D. R., 139b.

Browning, G. M., 38a.

Broyer, T. C., 10a.

Brubaker, R. W., 133a. Bruce, W. M., 24b. Brucher, O. P., 114a. Bruckner, J. H., 88b. Brueckner, A. L., 54a. Bruehl, G. W., 119a. Brugman, H. H., 52a. Brugueras, Mrs. E., 113b. Bruhn, H. D., 141a. Brumbaugh, N. M., VI, 102b. Brumbaugh, P. B., 36b. Brumby, M., 51a. Brundage, K. P., 18a. Brundage, R. C., 36b. Brundage, R. W., 57a. Bruner, W. H., 97a. Bruner, W. L., 50a. Brunig, M. P., 77a. Brunk, M. E., 85b. Brunnemeyer, H. R., 32b. Brunner, H. S., 109b. Brunner, J. R., 59b. Bruns, E. G., 141a. Bruns, V. F., 134a. Brunson, A. M., 35a. Brunson, C. C., 103b. Brupbacher, R. H., 49a. Brush, H. J., 95a. Brush, W. D., 22a. Bryan, C. S., 63a. Bryan, H. S., 33b. Bryan, K. V., 35b. Bryan, R. E., 92b. Bryan, R. J., 40a. Bryan, W. E., 5b. Bryant, C., 118b. Bryant, C. J., 24b. Bryant, J. G., 24b. Bryant, L. R., 136b. Bryant, M. D., 127b. Bryant, R. C., 16a. Bryant, R. L., 94b. Bryant, T. R., 46a, 47b. Bryner, C. S., 108a. Bryson, H. R., 44b. Bubl, E. C., 105a, 106a. Buchanan, D. E., 134a. Buchanan, I. H., 40b. Buchanan, J. E., III, 29a. Buchanan, J. O., 114a. Buchanan, J. S., 90b. Buchanan, M. L., 94a. Buchanan, M. T., V, 134a. Buchanan, R. E., 42b. Buchele, W. F., 7a. Buchholtz, K. P., 139b. Buchholtz, W. F., 39a. Buck, J. L., 132a. Buck, R. C., 109b. Buckingham, M., 127a. Buckley, M. R., 121a. Buckley, K. H., 69b. Buckman, G., 117a. Buckman, T. E., 78b. Buckner, G. D., 46b.

Buckner, R. C., 46a. Buddemeier, W. D., 31b, 33b. Budet-Domínguez, A., 112a. Budolfson, M., 40b. Buechner, H. K., 135b. Buehler, C. A., 120a. Buehrer, T. F., 5a. Buffington, G. A., 126b. Bulkley, W. F., 32b. Bull, S., 31a. Bull, W. I., 59b. Bullard, E. T., 30b. Bullard, J. F., 37b. Bullis, D. E., 105a. Bullis, K. L., 58b. Bullock, J. F., 117b. Bullock, R. M., 136b. Bulls, Mrs. J. T., 3b. Bumpas, R. 144a. Bunch, H. D., 68a. Bundy, C. E., 40a. Bunn, E. S., 104a. Bunn. R. H., 57a. Bunnell, D. E., 37b. Bunting, P., 144a. Burcalow, F. V., 139b. Burch, B. J., 50a. Burch, J. W., V, 70a, 72a. Burchard, C. W., 123b. Burchfield, G. E., 69b. Burckmyer, Mrs. E. L., 85b. Burd, H. E., 82a. Burdick, A. B., 6a. Burdick, R. T., 15b. Burg, A. G., 119a. Burge, C. A., 108a. Burge, G. U., 71a. Burger, A. W., 54a. Burger, O. J., 137a. Burger, W. W., 85b. Burgess, C. B., 53b. Burgess, P. S., V, 4a. Burgis, C. J., 124b. Burgis, D. S., 23b. Burgos, A., 113a. Burgoyne, D. A., 130b. Burgwald, L. H., 97a, 99b. Burgy, R. H., 12a. Buric, J., 54a. Burk, V., 71b. Burke, D., 144b. Burke, E. B., 105a. Burke, E. S., 70a. Burke, J. D., 84b. Burke, J. W., 56a. Burke, O. D., 109a. Burke, R. B., 132b. Burkeholder, J., 72a. Burkett, W. K., 79b. Burkhardt, G. J., 55a. Burkhart, L., 5b. Burkholder, C. L., 37b. Burkholder, W. H., 88a. Burkitt, W. H., 74a. Burleson, C. A., 127b.

Burleson, G. L., 50b. Burleson, R. E., 124a. Burleigh, E. M., 110h. Burley, D. R., 26a. Burley, R. H., 103b. Burlingame, B. B., 9a. Burlison, V. H., 30b. Burlison, W. L., 30a. Burman, A. H., 65a. Burnham, C. R., 64a. Burnham, D. R., 84b. Burnham, J. J., 96b. Burnight, R. G., 19b. Burns, Mrs. K. V., VI, 33a. Burns, Mrs. L. P., 127a. Burns, M. J., 1a. Burns, P., 72a. Burns, P. W., 126a. Burns, R. E., 26a. Burns, R. H., 144b. Burr, W. E., 17a. Burrell, A. B., 88a. Burrell, R. C., 96a, 99a. Burress, C. G., 110a. Burrill, L. M., 118b. Burris, R. H., 140a. Burroughs, A. L., 65b. Burroughs, D. E., 36a. Burroughs, E. W., 98b, 99a. Bursch, C. W., II, 11b. Burson, P. M., 67a. Burtis, M. K., 44b. Burtner, J. C., 107a. Burton, G. W., 27a. Burton, L. H., 7b. Burton, Mrs. M. M., 7b. Burton, T. M., 128b. Burwash, G., 114b. Burwell, R. G., 124b. Busby, A. T., 73a. Busby, J. N., 22a. Busche, L. M., 36a. Buschner, F. A., 17b. Busdicker, H. B., 136b. Bush, E. H., 124a. Bush, L. J., 47a. Bushey, D. J., 87a. Bushnell, J., 100b. Bushnell, L. D., 43a. Bushnell, O. A., 28a. Bushnell, T. M., 34a. Buss, E. G., 16b. Buss, I. O., 135b. Busset, G. M., 44b. Butcher, J., 74a. Butler, B. J., 71b. Butler, C. P., 115b. Butler, M. D., 134a. Butler, O. D., Jr., 123b. Butler, R. B., 49a. Butler, R. C., 139a. Butler, R. J., 134b. Butler, T., 144a. Butler, T. L., 54b. Butt, F. H., 86b.

Butt. Mrs. G. L., 88b. Butt. J. L., 2a. Butterfield, H. M., 9a. Butterfield, N. W., 58a. Butters, E. A., 82b. Butters, M., 81a. Butterworth, J. E., 86a. Button, Mrs. M. J., 48a. Butts, G. S., 87a. Butts, Mrs. H. A., 59a. Butts. J. S., 105a. Butts, W. T., 119b. Butz, D. E., 60a. Butz. E. L., 35b. Byers, G. B., 47a. Byers, J. B., 138b. Byers, J. H., 105a. Byers, Mrs. M. D., 60a. Byg, D. M., 97a. Byram, H. N., 60a. Byrd, H. C., 54a. Byrne, C. D., 104a. Byrne, S. H., 132a. Byrnes, F. C., 98a, 100a. Bywaters, J. H., 133b.

C

Caballero, Mrs. Z. V., 112b. Cable, C. C., Jr., 6b. Cable, R. M., 34b. Cabrera, C. M., 113b. Cabrera, J. I., 113a. Caddick, J. W., 114b. Cady, H. J., 87b. Caffey, M. D., 92a. Cagle, A. J., 135a. Cagle, L. R., 131b. Cagle, Mrs. W. N., 33a. Cahill, V., 96a. Cahoon, B., 62a. Cain, J. C., 89b. Cain, J. L., 114b. Cain, Mrs. M., 114b. Cain, R. F., 125b. Caine, G. B., 128b. Cairns, G. M., VI, 54a. Cairy, C. F., 63a. Calahan, C. L., 131b. Calavan, E. C., 14b. Calbert, H. E., 140b. Calderón, J. R., 113a. Caldwell, A. C., 67a. Caldwell, J., 92a. Caldwell, J. S., 55b. Caldwell, L. M., 49b. Caldwell, R. E., 22b. Caldwell, R. M. (Ind.), 35a. Caldwell, R. M. (Okla.), 103b. Caldwell, T. C., 57b. Caldwell, W. L., 35a. Calhoun, E., 117a. Calhoun, J. L., 132a. Calhoun, M. L., 63a. Calhoun, W., 135a.

Calhoun, W., Jr., 106a. Call, L. E., 42b. Callahan, E. M., 97b. Callaway, R. C., 50a. Callenbach, E. W., 111b. Callenbach, J. A., 75b. Callender, R. E., 126a. Callopy, M., 16b. Callward, F. M., 18b. Calvert, O. H., 127b. Calvert, W. A., 19b. Camburn, O. M., 130a. Cameron, D. R., 9b. Cameron, H. S., 13a. Cameron, J. L., 132b. Cameron, J. W., 14b. Cameron, S. H., 13b. Camp, A. F., 22b. Campbell, A. M., 95b. Campbell, A. N., 120a. Campbell, F. J., 58a. Campbell, J., 106b. Campbell, J. A., 70b. Campbell, J. C., 82a. Campbell, J. D., 102a. Campbell, J. N. (Ark.), 8b. Campbell, J. N. (Minn.), 67a. Campbell, J. R., 124a. Campbell, L., 136b. Campbell, M. H., IV, V, 114a. Campbell, M. W., 133a. Campbell, R. B., 40b. Campbell, R. S., 73b. Campbell, R. W., 45a. Campbell, W. A., 25a. Campbell, W. D., 101b. Camper, H. M., 133b. Canada, R. W., 15b. Canant, J. K., 104a. Canavan, F. T., 56b. Canedy, M. C., 130b. Canfield, T. H., 66b. Cannell, M., 77b. Cannon, C. Y., 38b. Cannon, G. W., 56b. Cannon, K. L., 77b. Cannon, M. C., 128b. Cannon, O. S., 128a. Cannon, R. Y., 1b. Canode, C. L., 101a. Canon, H., 86a. Cantrell, C. H., 3b. Capo, B. G., 113a. Card, C. G., 62b. Card, D. G., 48a. Card, L. E., 31a. Card, N. C., 57a. Cardinell, H. A., 62a. Cardon, B., 4b. Cardon, P. V., IV. Cardwell, A. B., 45b. Carew, H. J., 89a. Cargo, W. I., 61a. Carl, F., 33a. Carl, F. L., 72b.

Carleton, W. M., 60b. Carlin, F., 40b. Carlisle, G. R., 31a. Carlisle, V. W., 22b. Carlo, I., 113b. Carlson, A. (N. Y.), 88a. Carlson, A. (Okla.), 102b. Carlson, C. W. (Kans.), 46b. Carlson, C. W. (S. Dak.), 119b. Carlson, J. G., 122b. Carlson, J. W., 128a. Carlson, O. M., 129a. Carlson, R. E., 15a. Carlson, R. F., 62a. Carlson, T. C., 6a. Carlson, W. S., III, IV, 130a. Carlton, C. C., 3b. Carlton, W. M., 24a. Carman, G. E., 14a. Carmichael, J. P., 24b. Carmon, J. L., 24a. Carnahan, H. L., 108a. Carneross, J. W., 81a. Carnes, J. G., 57b. Carney, C. C., 69b. Carns. H. R., 70b. Carodemos, P. P., 115a. Carolus, R. L., 62a. Carpenter, D. C., 89a. Carpenter, E. S., 57a. Carpenter, G. A., 128a, 129a. Carpenter, H. A., 69a. Carpenter, Mrs. H. E., 115a. Carpenter, J. C., Jr., 52a. Carpenter, J. M., 122b. Carpenter, O. L., Jr., 127a. Carpenter, P., 105b. Carpenter, P. N., 52a. Carpenter, Mrs. R. M., 126a. Carpenter, R. W., 54b. Carpenter, S. E., 127b. Carpenter, V., 114b. Carr, E. S., 94a. Carr, J. M., 93b. Carraway, Mrs. R. C., 94a. Carreiro, J., 87b. Carreker, J. R., 24b. Carrick, C. W., 37b. Carrigan, J. E., 130a, b. Carrigan, R. A., 22b. Carringer, H. N., 120a. Carroll, F. D., 11a. Carroll, Mrs. S. P., 93a. Carroll, V., 78b. Carroll, W. E., 30a, 31a. Carroll, W. R., 21a. Carruth, L. A., 5a. Carson, E. W., 132b. Carson, I. W., 49a. Carson, J. R., 18b. Carson, P. L., 117a. Carson, S. M., 122a. Carstens, M. W., 136b, 137b. Carstensen, J., 61a.

Carstensen, V., 140b. Carter, A. S., 35a. Carter, B. J., 22a. Carter, D. C., 23a. Carter, D. G., 32a. Carter, G. H., 134b. Carter, G. R., 42a. Carter, H., 122a. Carter, H. W., 84b. Carter, J., 84b. Carter, J. F., 95b. Carter, Mrs. J. V., 139a. Carter, Mrs. K., 28b. Carter, L. A., 59b. Carter, Mrs. M., 106b. Carter, M. B. (Conn.), 18b. Carter, M. B. (Okla.), 102b. Carter, M. T., 133a, b. Carter, R. A., 4a. Carter, R. C., 131a. Carter, R. L., 27b. Carter, R. M., 92b. Carter, R. M., Jr., 130b. Carter, U. G., 139a. Carter, W., 29b. Carter, W. C., 24b. Carter, W. H., 50b. Carter, W. P., 68b. Cartledge, J. L., 137a. Cartrite, H. T., 126b. Cartter, B. L., 141a. Cartwright, T. C., 123b. Carver, C. E., Jr., 57a. Carver, J. S., 137a. Carver, L. L., 40a. Carver, W. A., 21a. Carver, W. O., 60b. Cary, C. L., 69b. Cary, H. W., 57b. Casady, A., 46b. Casady, R. B., 90b. Case, A. A., 73b. Case, H. C. M., 31b. Case, S. G., 16a. Casey, T., 124b. Cash, J. G., 31b. Cashin, K. D., 56b. Casida, L. E., 141b. Cason, C., 40b. Cason, J. L., 6a. Casselberry, R. D., 111b. Casso, H. J., 50a. Castell, S., 35a. Castle, E. N., 44a. Castle, W. E., 9b. Castor, J. G. B., 13b. Catcott, E. J., 98b. Cate, H. A., 34a. Cathcart, R. B., 43a. Cation, D., 59a. Cato, L. F., 115a. Catron, D. V., 39a. Caughlan, C. N., 74a. Caulfield, W. J., 39b. Caulum, V. A., 86b.

Cauthen, G. E., 126b. Cavanah, L. E., 72a. Cave, H. W., 102a. Cave, R. A., 118a. Cawley, H. L., 129a. Cawlfield, D. R., 73b. Cech, R. J., 41b. Cecil, S. R., 26b. Cederquist, D. C., 61a. Cedó, F., 112b. Cermak, J. E., 15b. Cerveny, C. C., 18b. Chada, H. L., 127b. Chadderdon, H., 41a. Chaddock, T. T., 63a. Chadwell, A. J., 122a. Chadwick, L. C., 98a, 100b. Chafee, C. M., 69a. Chaffee, M. A., III. Chaffin, J. W., 101a. Chakour, F. M., 56b. Chalfant, J. W., 92b. Challey, A. M., 95b. Chaloupka, M., 77b. Chamberlain, C. C., 119b. Chamberlain, D., 98b. Chamberlain, W. F., 116b. Chamberlain, V. D., 100b. Chamberlin, W. J., 105b. Chambers, D., 101b. Chambers, E. H., 2a. Chambers, Mrs. M. M., 4a. Chambers, V. M., 4a. Chamblee, D. S., 90a. Chambliss, C. G., 132a. Chambliss, R. L., Jr., 132a. Champagne, E. G., 40b. Champlin, W. J., 115b. Chance, F. S., 119a. Chandler, D. C., 86b. Chandler, F. B., 58b. Chandler, L. T., 133a. Chandler, R. F., Jr., III, 79a. Chandler, S. G., 25a. Chandler, W. A., 109a. Chandler, W. V., 90a. Chang, A. E., 29a. Chang, C. W., 83a. Chang, S. Y., 57a. Channell, R. B., 68b. Chapin, E., 41a. Chaplin, C. E., 48a. Chaplin, J. F., 117b. Chapman, A. B., 141b. Chapman, C. H., 52a. Chapman, C. J., 142b. Chapman, E. J., 122b. Chapman, G. L., 53b. Chapman, H. D., 14b. Chapman, H. W., 78b. Chapman, J., 102b. Chapman, J. E., 83a. Chapman, L. C., 4a. Chapman, N. S., 55b. Chapman, O. J., 20a.

Chapman, P. J., 89a. Chapman, P. W., 24a. Chapman, R. K., 141a. Chapman, W. H., 23b. Chapman, W. L., 25a. Chappell, C. K., 120a. Charity, G. O., 133a. Charity, L. F., 132a. Charkey, L. W., 15a. Charles, V. R., 33a. Charley, H. G., 106b. Charlton, J. L., 6b. Charlton, Mrs. M. P., 121a. Chase, D., 87a. Chase, F. J., 76b. Chase, M. L., 33a. Chase, S. S., 39a. Chasteen, J. S., 16a. Chastian, E. D., Jr., 132a. Chavous, G. L., 24b. Cheaney, R. L., 123a. Cheatham, J. M., 8a. Cheely, Mrs. E. P., 51a. Chenault, L., 7b. Cheney, H. B., 38a. Cheney, L. A., 60a. Chepil, W. S., 42b. Chernak, Mrs. C. R., 17a. Cherrington, V. A., 29b. Cherry, R. G., 124a. Cherry, W. B., 120a. Chesnin, L., 75b. Chesnutt, R. R., 2a. Chessmore, R., 101a. Childers, N. F., 81b. Childs, L., 107b. Childs, Mrs. M. M., 61a. Childs, W. H., 138b. Chilson, W. H., 43b. Chilton, S. J. P., 49b. Chinburg, C. H., 16a. Chisholm, F. A., 143a. Chisman, H. H., 110a. Chittenden, G., 40b. Chittick, D., 119b. Chivers, W. H., 42a. Choate, R. E., 21b. Chow, T. L., 142b. Chriesman, W. A., 119a. Christ, E. G., 81b. Christen, H. E., 2a. Christensen, C. M., 66b. Christensen, H. T., 37a. Christensen, J. F., 13a. Christensen, J. J., 66b. Christensen, P. D., 127b. Christensen, S. K., 128b. Christian, C. F., 97a. Christian, J. A. (Conn.), 17b. Christian, J. A. (Pa.), 108a. Christian, Mrs. R. B., 62a. Christian, R. E., 141b. Christian, W. E., 68b. Christiansen, J. E., 128b. Christianson, J. O., VI.

Christison, C. M., 67a. Christmas, J. F., 49b. Christoffersen, P. V., 129b. Christopher, E. P., 114a, b. Christopher, Mrs. E. 114b. Christopherson, C. H., 65a. Chu, G. W., 29b. Chubbuck, E. R., 44b. Chung, C. W., 82a. Chupp, C., 88a. Church, G. F., 103b. Church, H. L., 5a, b. Churchill, B. R., 61a. Churchill, E. S., 63a. Churchill, O. O., 95b. Ciha, Mrs. C. O., 32a. Cintron, J. B., 112b. Cladel, C. E., 87b. Clagett, C. O., 95a. Claiborne, Mrs. E. L., 50b. Clanahan, D. L., 61a. Clanin, E. E., 36a. Clapp, A. L., 42b. Clapp, F., 120a. Clapp, L. E., 38a. Clapp, N. F., Jr., 127b. Clapp, R., 53b. Clapp, R. T., 69b. Clark, A. B., 51a. Clark, A. R., 118a. Clark, B. E., 90a. Clark, C. E., 91b. Clark, C. F., 63a. Clark, C. H., 98b. Clark, C. M., 48b. Clark, Mrs. C. R., 15b. Clark, D. G., 85a. Clark, E. S., 82a. Clark, F. A. (Ala.), 3a. Clark, F. A. (Fla.), 21a. Clark, F. B., 72a. Clark, F. E., 38a. Clark, F. F., 40a. Clark, F. G., 52a. Clark, G. H., 132b. Clark, Mrs. G. S., 106b. Clark, H. B., 48b. Clark, H. E. (Kans.), 45a. Clark, H. E. (N. J.), 82a. Clark, J. C., 122a. Clark, L. W., 128b. Clark, M., 37a. Clark, M. B., 44a. Clark, M. E., 92b. Clark, M. J., 52a. Clark, M. W., 71b. Clark, N., 139a. Clark, R. B., 81b. Clark, R. C., Jr., 88b. Clark, R. F., 37a. Clark, R. M., 60a. Clark, R. R., 107a. Clark, Mrs. R. R., 18a. Clark, T. B., 138a.

Clark, T. G., 122b. Clark, W. F., 85b. Clark, W. W., VI, 139a, 141a Clarke, A. E., 129b. Clarke, D. A., Jr., 8b. Clarke, E. H., 122a. Clarke, J. H., 138a. Clarke, L. F., 144b. Clarke, M. K., 58b. Clarke, W. S., Jr., 111a. Clarke, W. W., Jr., 111b. Claunch, G., 37a. Clausen, R. E., 9b. Clausen, R. T., 85a. Clauss, E. R., 61a. Clavell, C. J., 113b. Claybaugh, J. H., 78a. Claycomb, R. S., 81a. Claydon, T. J., 43b. Claypool, L. L., 12b. Clayton, C. N., 91a. Clayton, H. G., 21a, 22a. Clayton, L. O., 116a. Clayton, M. M., 53b. Claytor, B., 125a. Cleal, H. L., 100a. Cleaveland, L., 106b. Cleavinger, E. A., 42b. Clegg, R. E., 43b. Cleland, S. B., 65a. Clements, H. F., 28b. Clemmons, Mrs. A. M., 48a. Clevenger, Mrs. R. D., 93b. Clevenger, W. L., 91a. Cline, M. G., 84a. Cline, R. A., 117a. Cline, R. W., 5a. Clinton, F., 106a, b. Cloaninger, B. D., 115b. Clodius, R. L., 140b. Cloninger, K., 72a. Cloringer, W. H., 71a. Clore, W. J., 136b. Clothier, R. C., 80a. Cloud, H. A., 65a. Clough, H., 86a. Clough, R. S., 72a. Clow, B. C., 74b. Clulo, G. B., 138b. Clyburn, T. M., 117a. Clyde, A. W., 110a. Clyde, G. D., 128b. Cmarik, G. F., 34a. Coakley, Mrs. L. J., 15a. Coates, E. S., 92a. Cobb, C., Jr., 24b. Cobb, J. S., 108a. Cobb, K. M., 24b. Cobb, R. M., 53a. Cobb, W. T., 49a. Cobble, J. W., 71a. Cobbs, H. V., 140b. Cobin, M., 23b. Coble, C. S., 4a. Cochran, C. A., 97b.

Cochran, F. D., 93a. Cochran, G. W., 128a. Cochran, J. H., 117a. Cochrane, W. W., 109b. Cockerham, K. L., 51b. Cockerill, P. W., 83b. Cockrell, D. L., 114b. Cockrell, R. A., 9b. Cockrum, H. G., 75b. Codd, A. R., 74b. Code, W. E., 16a. Cody, M. D., 21a. Coe. M. E., 133b. Cofer. E. S., 138b. Coffey, J. F., 57a. Coffey, J. S., 96a. Coffey, L. C., 123a. Coggin, H. T., 24a. Coggin, J. K., 92a. Coggshall, W. L., 86b. Cohen, H. K., 142b. Cohn, E. M., 31a. Coke, J. E., 8a, 9a. Colberg, W. J., 95a. Colburn, A. P., VII, 19a. Colby, A. S., 33b. Colby, B. E., 56a. Colby, F. W., 121a. Colby, H. N., 79b. Colby, R. W., 123b. Colby, W. G., 56a. Cole, A. B., 57b. Cole, A. C., 122b. Cole, A. C., Jr., 121a. Cole, C. R., 98b, 100b. Cole, G., 75a. Cole, H. H., 11a. Cole, H. L., 134b. Cole, J. E., 83b. Cole, J. W., 119b. Cole, L. Z., 102b. Cole, P., 76b. Cole, R. K., 88b. Cole, R. O., 36a. Cole, T. A., 115b. Colebank, L. O., 120a. Coleman, C. S., 131a. Coleman, L., 48b. Coleman, Mrs. M. E., 3b. Coleman, O. T., 73a. Coleman, R. J., 62b. Coles, E., 105b. Coles, E. H., 46a. Coles, J. V., 9b. Collentine, A. O., 140b. Collier, J. R., 42a. Collier, J. W., 127b. Collier, L., 25a. Collier, M., 4a. Collings, G. H., 115a. Collings, W. D., 63a. Collings, W. R., 73b. Collins, E. B., 11b. Collins, E. R., 90a. Collins, E. V., 40a.

Collins, F. B., 19b. Collins. F. F., 118b. Collins, G. P., 102a. Collins. H. W., 16a. Collins, O. E., 4a. Collins, P. E., 45a. Collins, P. R., 103b. Collins, R. E. L., 121a. Collins, W. B., 91b. Collins, W. O., 24a. Colmer, E. B., 68a. Colom-Avilés, J., 111a. Colon, L., 113b. Colon. L. F., 113a. Colovos, N. F., 79b. Colton, S. B., 33a. Colvard, D. W., 90b. Colwell, R. M., 57a. Colwell, R. N., 9b. Colwell, W. E., 90a. Colwick, R. F., 69a. Comar, C. L., 119b, 122b. Combs, G. F., 55b. Combs. O. B., 142a. Combs, W. B., 64b. Comfort, J. E., 71a. Comin. D., 98a, 100b. Compere, H., 14a. Compton, K. C., 72a. Compton, L. E., 35a. Compton, L. L., 42b. Compton, O. C., 107a. Comstock, Mrs. R. B., 87b. Comstock, R. E., 93a. Conard, E. C., 75b. Conaway, C. H., 122b. Concienne, E. J., 51b. Condit, I. J., 14b. Condra, G. E., 76b. Cone, J. F., 109a. Conklin, H. E., 85b. Conklin, J., 56b. Conklin, J. G., 80a. Conlin, K. J., 81b. Conlon, T. J., 96b. Connell, W. A., 20a. Connell, W. B., 108b. Connell, W. E., 15a. Connelly, P. K., 36a. Connelly, R. G., 131b. Conner, B. V., 131b. Conner, G. H., 67a. Conner, M. C., 132a. Conner, N. D., 3a. Conniff, J. E., 2a. Connor, J. W., 87b. Connor, L., 116a. Connors, C. H., 81b. Conoly, G. W., 23a. Conover, R. A., 23b. Conrad, J. P., 10b. Converse, R., 119a. Conway, E. A., 98a, 100a. Cooil, B. J., 28b. Cook, Mrs. B. B., 10a.

Cook, C. W., 129a. Cook, E. D., 127a. Cook, E. F., 65b. Cóok, F. E., 33a. Cook, F. W., 93a. Cook, Mrs. G. M., 58a. Cook, H. L., 140b. Cook, J. R., 115a. Cook, L. E., 92a. Cook, L. G., 80a, 81a. Cook, R. D., 120b. Cook, R. H., 76a. Cook, R. L., 62b. Cook, R. R., 124b. Cook, R. R., 1246. Cook, S., 118b. Cook, W. B., 143b. Cook, W. G., 26a. Cook, W. S., 49b. Cooke, C. E., 66b. Cooke, H. L., 90a. Cooke. O. B., 19a. Cool, B. M., 2a. Cooley, E., 50a. Cooley, R. B., 34b. Coolidge, J. H., 44a. Coolidge, W. F., 32b. Coon, B. F., 111b. Coon, W. J., 17a. Cooney, W. T., 107b. Coonrod, L. G., 52b. Cooper, A. B., 82a. Cooper, A. E., 108a. Cooper, D. C., 141b. Cooper, G. R., 52b. Cooper, H. P., 115a. Cooper, J. B., 116b. Cooper, J. F., 21b. Cooper, J. O., 2a. Cooper, L. (N. Y.), 86a. Cooper, L. (Tex.), 124b. Cooper, L. W., 133b. Cooper, M. M., 141b. Cooper, T. P., III, 46a, 47b. Cooper, W. C. (N. C.), 94a. Cooper, W. C. (Tex.), 127b. Cooper, W. E., 91a. Cooper, W. M., 6b. Cooperrider, D. E., 26a. Cope, H. E., 63a. Cope, H. N., 110a. Cope, J. T., 1a. Copeland, D. H., 1a. Copeland, J. T., 69a. Copeland, L., 120a. Copeland, O. B., 24b. Copenhaver, J. S., 131a. Copley, T. L., 90a. Coppens, G. E., 141a. Copping, B., 73a. Coppock, G. E., 2a. Corbett, A. C., 80b. Corbett, R. A., 52a. Corbin, F. M., 77a. Corbridge, I. L., 135a. Cordner, H. B., 103b.

Cords, H. P., 4a. Cordy. D. R., 13a. Corey, G. L., 30a. Corkins, J., 75b. Corless. D. E., 29a. Corley, J. H., IV. 8a. Corley, T. E., 2a. Cormany, E. M., 45a. Cornelison, P., 71b. Cornell, E. M., 55a. Cornell, P., 55b. Cornman, J. F., 87a. Cornwall, E., 2b. Correll, Mrs. M. G., 45a. Cortright, L. F., 110b. Corty, F. L., 109b. Coruthers, J. M., 127a. Corv. E. N., 55a. Corvell, J. S., 45a. Costello, B., 144a, Coster, J. K., 36a. Costilow, R. N., 91a. Cotner, F. B., 74a. Cotney. W. W., 3b. Cotnoir, L. J., Jr., 20a. Cotter, R. U., 66b. Cottier, G. J., 3a. Cottingham, E., 33a. Cotton, C., 54a. Cotton, W. P., 91b. Couch, E. C., 93b. Couch, J. R., 123b, 125b. Couey, J. E., 47a. Coughenour, C. M., 73a. Coulam, J., 128b. Coulter, S. T., 64b, Courtney, J., 87b. Courtney, R. J., 50b. Courtney, W. D., 136b. Cousens, Mrs. D. W., 86a. Covault, C. H., 42a. Covell, R. R., 24a. Cover, M. S., 33b. Cover, S., 125a. Coviness, C. E., 8b. Covington, H. M., 93a. Covington, J. L., 105a. Cowan, E. W., 71a. Cowan, J. R., 106a. Cowan, L., IV, 73b. Cowan, R. L., 108b. Cowan, W. A., 56a. Cowart, F. F., 26a. Cowart, R., 68a. Cowden, L. V., 136a. Cowden, T. K., 60a. Cowles, M. L., 141b. Cowley, W. R., 127b. Cowperthwaite, W. L., 23b. Cowsert, W. C., 68b. Cox, B., 125a. Cox, B. F., 93a. Cox, C. B., 35b. Cox, C. D., 109a

Cox, C. E., 54a.

Cox, E. (Iowa), 41a. Cox, E. (Mass.), 57a. Cox, G. M., 93a. Cox. H. T., 131b. Cox, J. A. (La.), 51a. Cox, J. A. (Pa.), 111b. Cox, J. T., 62b. Cox, M. B., 104b. Cox. R. F., 43a. Cox, R. S., 20b. Cox, R. W., 65a. Cox, S. J., 74b. Cox. W. A., 69b. Coyle, B. W., 105b. Covne, S. E., 114a. Crabb, G. A., Jr., 62b. Craft, Mrs. R. R., 40b. Craft, W. A., 39a. Crafts, A. S., 11a. Craig, F. R., 93a. Craig, L., 102b. Craig, R., 9a. Craig, R. N., 124a. Craig, W., 139a. Craigmiles, J. P., 26a. Crain, A. W., 123a. Crain, W. F., 34a, 36a. Crall, J. M., 39a. Cralley, E. M., 7b. Cramer, A. J., 140b. Cramer, H., 141b. Cramer, J. F., III. Crandall, B. H., 130b. Crandall, Mrs. E. W., 114b. Crandall, W. T., 84b. Crane, E. W., 86a. Crane, G. B., 97b. Crane, J. C., 12b. Craumer, W. E., 4a. Craven, C. J., 120b. Craven, M., 121a. Craven, R., 116b. Craven, W. H., 115a. Cravens, M. E., 60a. Cravens, W. W., 142b. Crawford, A., 92a. Crawford, C. E., 94a. Crawford, C. H., 87b. Crawford, C. W., 31a. Crawford, D. E., 115b. Crawford, J. H., 116b. Crawford, J. W., 91b. Crawford, P. A., Jr., 24b. Crawford, R. F., 83a. Cray, R. E., 98b, 100b. Creasy, L. E., 50b. Creech, B. F., 138a. Creek, C. R., 15b. Creel, C. W., IV, 78a, b. Creel, D. R., 139b. Creighton, J. T., 21b. Creighton, J. W., 59b. Creighton, M. G., 132a. Crenshaw, C. L., 115b. Cresap, I. K., 22b.

Cresswell, M., 69a. Cresswell, Mrs. M., 69a. Cretcher, J. C., 96a. Crim, R. F., 64a. Crimmins, L. T., 26a. Crisler, O. S., 73b. Crisman, I. R., 118b . Criswell, J. E., 47a. Crittenden, H. W., 20b. Crocker, R. L., 10b. Crockett, S. P., 70b. Croft, H. O., VII. Cromer, S. S., 36a. Crompton, W., 134a. Cromwell, F. C., 5b. Crone, E. B., 15a. Cronquist, A. H., 134b. Croom. H. G., 67b. Cropsey, M. G., 105b. Crosby, E., 58b. Crosby, J. E., Jr., 72a. Crosier, W. F., 90a. Cross, A. C., 26a. Cross, C. E., 58b. Cross, D. A., 80b. Cross, F., 17a. Cross, F. B., 103b. Cross, R., 98b. Crossmon, B. D., 57a. Crosson, M. A., 36b. Crouse, R. H., 90a, Crow, A. B., 51a. Crow, F. R., 102b. Crow, J. F., 141b. Crow, J. H., 55a. Crowder, L. V., 26a. Crowdus, Mrs. D., 47a. Crowe, C. F., 86b. Crowe, G. L., 106a. Crowe, L. K., 76b. Crowell, H. H., 105b. Crowl, B. W., 35b. Crowley, D. J., 136b, 137b. Crowley, J. W., 140b. Crowley, L. V., 56b. Crowley, R., 72a. Crown, R. M., 49a. Crowther, G. W., 18a. Croy, O. C., 97b. Cruess, W. V., 9b. Cruickshank, A. M., 56b. Crumb, S. E., Jr., 105b. Crummett, D. O., 13b. Crump, L. L., 4a. Cruser, E. S., 103a. Cruz, O. E., 22b. Cruzado, H. J., II. Cruz-Miret, A., 113a. Cuendet, L. S., 64b. Culbert, J. E., 83b. Culbert, J. R., 33b. Culbertson, C. C., 39a. Culbertson, J. L. 134b. Culbertson, J. O., 64a. Cullens, H., 121a.

Culler, D. M., 98a. Cullison, A. E., 24a. Culmsee, C., 128b. Culton, T. G., 47a. Culver, A. J., 105a. Culver, H. R., 2a. Culver, L. B., 32b. Cummins, G. B., 35a. Cummings, G. D., 63a. Cummings, J., 124a. Cummings, J. N., 64a. Cummings, R. W., V, 90a. Cuneo, G. H., 55a. Cunha, T. J., 21a. Cunningham, C. E., 52a. Cunningham, C. H., 63a. Cunningham, C. J., 139b. Cunningham, C. R., 72b. Cunningham, E., 83b. Cunningham, G. R., 32b. Cunningham, H. S., 88a. Cunningham, J. B., 31b. Cunningham, L. C., 85b. Cunningham, P. D., 51a. Cupp, N. J., 103b. Cupps, P. T., 11a. Curnutt, V. L., 48a. Currell, S. C., 122a. Currence, T. M., 66a. Current, R. A., 92b. Currie, J. A., 107b. Currier, H. B., 11a. Currier, M. E., 103a. Currin, R. E., Jr., 93b. Curry, A. S., V, 83a. Curry, M., 118b. Curry, N. H., 40a. Curtis, C. M., 50b. Curtis, J. C., 132a. Curtis, J. O., 32b. Curtis, L., 2b. Curtis, M. L., 37a. Curtis, O., 114a. Curtis, O. F., Jr., 89b. Curtis, P. B., 35a. Curtis, W. D., 50a. Curtiss, V., 55a. Cushing, R. L., 88a. Cushman, C. G., 115b. Cushman, E. M., 86a. Cushman, H. E., 75a. Cushman, M. L., 40a. Custer, E. W., 68b. Cutkomp, L. K., 65b. Cutlar, K. L., 88a. Cutler, E. R., 72b. Cutler, G. H., 34a. Cutright, C. R., 98b, 100a. Cyzycki, V. W., 22b. Czajkowski, J. M., 18b. Czarnecki, R. B., 63a.

D

Dacken, M. L., 103a. Dahl, F. H., 105b. Dahlberg, A. C., 85b. Dahlberg, F. I., 123b. Dahle, C. D., 109a. Dahljelm, I. L., 63a. Dahlquist, N. L., 143b. Dahlstrom, R. V., 29b. Dahm, P. A., 44b. Dahms, R. G., 102b. Dail, H. M., 9a. Dailey, D. L., 67b. Dailey, H. E., 131a. Daines, R. H., 82a. Daines, S. H., 129a. Dakan, E. L., 98b, 100b. Dakin, R., 92b. Dale, A. C., 36a. Dale, E. H., 110a. Dale, E. W., 123a. Dalgleish, D. W., 60a. Dallyn, S., 51a. Dalton, F. H., 52b. Dalton, M. L., 131a. Dalton, R. H., 85a. Dambach, C. A., 98b. Dameron, J. L., 8a. Dana, B. F., 105a. Dana, B. R., 123b. Dandeneau, R., 62a. Daniel, D. O., 91b. Daniel, E. F., 47a. Daniel, E. R., 102b. Daniel, H. A., 104b. Daniel, L. J., 85a. Daniel, R. P., 133a. Daniel, T. W., 129a. Daniel, W. H., 34a. Daniels, D. E., 117a. Daniels, L. B., 16a. Danielson, L. L., 133a. Danielson, R. E., 14a. Dankers, W. H., 65a. Dannen, E. V., 107b. Danner, M. J., 1b. Danner, Mrs. P. D., 108b. Danner, W. N., Jr., 24b. Dansby, G. M., 124a. Darden, A. F., 26b. Darley, E. F., 14b. Darling, H. M., 142a. Darlow, A. E., 101b. Darnell, A. L., 124a. Darrah, L. B., 85b. Darrow, R. A., 125b. Darsie, R. F., 20a. Daubenmire, R. F., 134b. Daugherty, F. C., 15a. Daughtrey, W. H., 132b. Davenport, M. G., 126b. Davenport, O. M., 48a. Davenport, R. E., 141a. Davenport, R. L., 50a. Davey, W. R., 109a. David, W. C., 127a. Davidson, A. P., 44a. Davidson, F. E., 46b.

Davidson, H., 62b. Davidson, J. A., 62b. Davidson, J. B., 40a. Davidson, M., 75a. Davidson, O. W., 81b. Davidson, R. H., 98b. Davidson, R. S., 96b, 99b. Davidson, S., 40b. Davidson, T. P., 108b. Davies, F. F., 101a. Davies, M. E., 114b. Davies, V., 137a. Davine, A., 18b. Davis, A. B., 56a. Davis, A. C., 89a. Davis, A. M., 6a. Davis, A. O., 52a. Davis, B., 132b. Davis, B. H., 82a. Davis, C. E., 16b. Davis, C. M., 26a. Davis, C. V., 75b. Davis, C. W., 50b. Davis, D. (Ala.), 2a. Davis, D. (Conn.), 19b. Davis, D. (Mass.), 58a. Davis, D. (Ohio), 97b. Davis, D. E., 1b. Davis, D. J., 73b, 75b. Davis, D. R., 124a. Davis, E., 136a. Davis, Mrs. E. T., 104a. Davis, F., 55a. Davis, F. L., 1a. Davis, G. B., 105b. Davis, G. K., 21a. Davis, G. N., 13a. Davis, G. R., 77b. Davis, G. T., 143b. Davis, H. A., 79a. Davis, H. P., 76b. Davis, J. F., 62b. Davis, J. H., 21a. Davis, J. J., 36a. Davis, J. R., 139b. Davis, J. W., 139a. Davis, K. C., 102a. Davis, L. A., 8a. Davis, L. D., 12b. Davis, L. E., 12b. Davis, L. L. (Calif.), 12a. Davis, L. L. (Va.), 133a. Davis, O. S., 38a. Davis, P. O., 1a, 2a. Davis, Mrs. R. D., 141b. Davis, R. L. (Ind.), 34a. Davis, R. L. (Miss.), 68b. Davis, R. L. (Nebr.), 78b. Davis, R. N., 5a. Davis, R. R., 99a. Davis, R. W., 17a. Davis, S., 122a. Davis, S. H., Jr., 82a. Davis, S. P., 126b. Davis, W. A., 57b.

Davis, W. B., 126a. Davis, W. C., 126b. Davis, W. S., 122a. Davison, R. P., VI, 130b. Davy, L., 95b. Dawdy, M. L., 109a. Dawe, H. C., 141b. Dawson, E., 117a. Dawson, E. E., 73a. Dawson, J. E., 84a. Dawson, L. E., 62b. Dawson, R. M., 95b. Day, B. E., 14b. Day, C. A., 53a. Day, C. L., 71b. Day, E. E., IV. Day, E. J., 121a. Day, E. M., 103b. Day, Mrs. F. P., 95b. Day, G. M., 81b. Day, L. M., 140b. Day, M. W., 59b, 64b. Day, P. R., 10b. Dayton, D. F., 33b. Dayton, J. W., 56a, 57b. Deacon, R. C., 97a. Deacon, R. E., 86a. Deal, J. F., 24a. De Alton, E. L., 95a. Dean, A. L., 133b. Dean, C. E., 94a. Dean, F. W., 98a. Dean, G. W., 117a. Dean, H. A., 124b. Dean, J. A., 120a. Dean, J. G., Jr., 99a. Dean, L., 30b. Dean, R. W., 89a. Dean, T. C., 40a. Dean, W., 132b. Deane, D. D., 76b. Deans, R. J., 96a. Dearborn, C. H., 4b. Dearden, L. C., 57b. Dearing, C., 93b. Dearstyne, R. S., 93a. d'Easum, C. G., 30b. Deatherage, F. E., 96a, 99a. Deay, H. O., 36a. DeBach, P. H., 14a. DeCaprio, A., 19a. Decker, C. W., 135a. Decker, G. C., 32b. Decker, J. L., 9a. Decker, L., 19a. Decker, P., 21a. Decker, R. E., 61a. Decker, W. L., 73a. Deckert, R. C., 59b. de Colom, S. V., 112a. DeCosta, L. C., 117a. Deekens, A. M., 132a. Deem, A. W., 17a. Deems, H. W., 77a. Deen, E., 47b.

Deen, E. E., 69a. Deen, J. L., 16a. Deer, J. A., 124b. Deering, A. L., IV, 52a, 53a. Deering, R. B., 12a. DeForest, S. S., 40a. DeFrance, J. A., 114a. DeFriese, F. M., 120b. Degman, E. S., 108a. DeGraff, H. F., 85b. DeHart, P. H., 131a. Dekker, H. J., 131a. Dekker-van Ghyl, Mrs. L., 31a. DeLaBarre, C. F., 131b. DeLaCroix, F. E., 35b. Delahanty, D. D., 17a. DeLaney, J., 18b. DeLany, D. C., 86b. Delaplane, J. P., 114a. Delappe, I. P., 63a. DeLashmutt, F. S., 97a. DeLaubenfels, M. W., 29b. Delavan, B. C., 110b. Delez, A. L., 38a. DeLoach, Mrs. M., 55b. Deloney, J. E., 2a. DeLong, D. M., 98b. DeLong, G. E., 95a. DeLong, H. H., 118b. del Toro, E., 113a. Delwiche, C. C., 10a, Delwiche, E. A., 85b. DeMarche, J. M., 69b. Demaree, F. H., 35b. DeMent, J. D., 49a. Deming, G. W., 14a. Deming, M. W., 78a. DeMots, G., 93a. Demott, B. J., 29b. DeMottier, J. F., 123a. Dempsey, A. H., 27a. Dempsey, P. W., 58a. Dempster, E. R., 9b. Dendy, J. S., 3b. Denglar, H. W., 55a. Denisen, E. L., 41b. Denison, J. H., IV. Denman, C. E., 101a. Denman, T. E., 127a. Dennes, W. R., VII. Dennett, Mrs. L. C., 141b. Dennett, R. K., 29b. Denning, D. G., 144a. Denning, H. L., 28b. Dennis, P. W., 59a. Dennis, R. S., 22a. Dennison, R. A., 22a. Denniston, R. H., 144b. Densmore, B., 45a. Denson, W. P., 50b. Dent, J. G., 65a. Dent, W. E., 107b. Den Uyl D., 36b. Deppe, J. W., 143a.

Derby, G. E., 46a. Derden, R. H., 70a. DeRose, R. L., 77a. DeRouen, T. M., 49b. Derr, L. E., 101a. Derrick, W. W., 76a. Derscheid, L. A., 117a. Desaulniers, M., 111a. Desjardins, P. R., 14b. Desrosier, N. C., 37b. Desrosier, N. W., 58a. Deszyck, E. J., 22b. Deters, R. J., 71a. Detjen, L. R., 20b. DeVall, W. B., 2a. DeVane, E. H., 27a. DeVault, S. H., 54b. Devaux, L. A., 19a. Devereux, E., 85a. Devereux, E. D., 63a. DeVolt, H. M., 54a. DeVries, S. L., 80a. DeWeese, P., 45b. DeWerth, A. F., 125a. Dewey, A. W., 18a. Dewey, G. W., 106a. Dewey, J. E., 86b. Dexter, M. L., 45b. Dexter, S. T., 61a. Deyoe, G. P., 32a. DeYoung, L. B., 27b. DeZeeuw, D. J., 59a. Dhonau, L. A., 7a. Diachun, S., 46a. Diaz, M. A., 112b. Diaz, N., 112b. Dick, J. B., 70b. Dick, K. A., 29a. Dickason, E. A., 105b. Dicke, R. J., 141a. Dickerman, J. M., 56a. Dickerson, G. E., 71a. Dickerson, J. E., 37b. Dickerson, L., 136a. Dickerson, R. B., VI, 108a. Dickey, H. C., 52a. Dickey, L., 121a. Dickey, L. W., 17a. Dickey, R. D., 22a. Dickins, D., V, 69b. Dickinson, C. E., Jr., 73a. Dickinson, E. M., 107b. Dickinson, L. S., 56a. Dickson, A., 72a. Dickson, J. G., 142a. Dickson, L. H., 119a. Dickson, N. D., 134a. Dickson, R. C., 14a. Dickson, W. M., 137a. Diedesch, M., 106b. Diedrichsen, E., 77b. Diehl, D., 102b. Diehl, I. C., 37a. Diesem, C. D., 98b. Diesslin, H. G., 35b.

Dietrich, H., 86b. Dietrich, I. T., 95b. Dietrich, M., 138b. Dietrick, L. B., 131a. 132b. Dietz, S. M., 105a. Dillard, E. U., 91a. Diller, O. D., 98a. 100a. Dillion, J. E., 71b. Dillon, L. S., 123b. Dills, L. E., 111b. Dils. R. E., 59b. Dilts, J. A., 102b. Dilworth, B. P., 2a. Dimick, R. E., 106a. Dimock, A. W., 88a. Dimond. A. E., 19b. Dingle, R. W., 72a. Dinusson, W. E., 94a. Dionne, E. A., 129a. Dirks, C. O., 53a. Dirks, V. A., 117a. Diseker, E. G., 92a. Ditman, L. P., 55a. Dittfack, J. H., 57a. Dittman, A., 119b. Dittmer, W. E., 118b. Dixon, D., 139a. Dixon, L. B., 92b. Dixon, W. L., 49a. Doak, C. C., 123b. Doan, F. J., 109a. Dobrovsky, T. M., 91a. Dobson, S. H., 90a. Dobson, W. J., 123b. Doby, P. B., 6a. Dockins, J. O., 8b. Dodd, D. R., 96a. Dodd, Mrs. V. L., 7b. Dodds, J. D., 114a. Dodds, J. P., 41b. Dodds, M. L., 110b. Dodge, A. F., 38a. Dodge, J. C. (Colo.), 16a. Dodge, J. C. (Wash.), 136a. Dodge, W. A., 130a. Dodgen, H. W., 134b. Dodson, C. A., 116b. Dodson, E. M., 9a. Doehlert, C. A., 81b, 82b. Doermann, M. C., 81b. Doggett, J. F., 90a. Doheny, M. J., 130b. Doherty, P. B., 16a. Dolan, D. D., 114b. Dole, E. J., 130a. Dole, P., 18b. Dolge, K. L., 17b. Doll, D., 141b. Doll, E. R., 47a. Doll, R. J., 44a. Dolloff, R. C., 53a. Dolve, W. H., 95a. Dominick, C. B., 131b. Domingo, C. E., 134a. Donahue, R. L., 123a.

Donaldson, B., 41a. Donaldson, D. N., 15b. Donaldson, E. C., 55b. Donaldson, R. B., 109b. Donaldson, R. W., 56a. Doneen, L. D., 12a. Doneth, J. C., 60a. Donham, C. R., VIII, 38a. Donma, K. W. G., 117a. Donnelly, E. B., 58a. Donovan, H. L., III, IV, V. 46a. Dooly, N. S., 25b. Doran, E. B., 50b. Doran. J. R., 120a. Doran, W. L., 56a. Dorchester, C. S., 38a. Doremus, M. E., 87a. Dorr, H., Jr., 2a. Dorsey, C. P., 138a. Dorsey, H., 18b. Dorsey, L. M., 52b. Dorsey, T. A., 119b. Dorst, H. E., 129b. Dosdall, L., 66b. Dossin, C. O., 111b. Dotson, F. W., 58a. Dotzenko, A. D., 83a. Doubly, J. A., 95a. Dougherty, L. A., 79b. Dougherty, N. L., 5b. Dougherty, N. W., VII. Doughty, C. L., 121a. Doughty, S. R., 2a. Douglas, D., 29a. Douglas, E., 39b. Douglas, J. R., 13a. Douglas, W. A., 70a. Douglass, R. M., 65b. Doutt, R. L., 8a. Douty, H. I., 28b. Dow, A. I., 134a. Dow, G. F., 52a. Dowd, L. R., 17b. Dowden, N. H., 119b. Dowdy, G., 97b. Dowdy, W. V., 25b. Dowdy, W. W., 73a. Dowe, T. W., 76a. Dowell, A. A., 65a. Dowell, O. M., 69a. Dowling, J. J., 82a, 83b. Down, E. E., 61a. Downen, M. L., 120b. Downes, J. D., Jr., 138b. Downey, M. S., 55a. Downing, B., 114b. Downs, D. B., 19b. Downs, P. A., 76b. Doyle, L. P., 38a. Dozier, E., Jr., 47a. Dracy, A. E., 118a. Drage, C. M., 16b. Dragsdorf, R. E., 45b. Drain, B. D., 122a.

Drain, L., 103a. Drain, Mrs. L. P., 139a. Drake, A., 25a. Drake, C. H., 134b. Drake, Mrs. E. S., 61a. Drake, J. F., 3a. Drake, M., 56b. Drapala, W. J., 68a. Draper, C. I., 129b. Draper, G. E., 5a. Draper, G. H., 125b. Draughon, R. B., III, 1a. Dregne, H. E., 83a. Dreier, A., 75b. Dreiling, F. R., 133a. Drennon, H., VII, 68a. Dressel, K., 59b. Drew, L. O., 24b. Drew, W. B., 59a. Driftmier, R. H., 24b. Driggers, B. F., 81a. Driggers, J. C., 22b. Drinkwater, W. O., 18b. Driskell. B. N., 49a. Driver, E. D., 58a. Drudge, J. H., 70a. Drummond, D. M., 78b. Drummond, J., 74a. Drury, A. R., 63a. Dryden, R. L., 12a. Drysdale, P., 72a. Dubé, D. J., 53a. Dube, Mrs. R., 106b. DuBois, M., 106b. Dubois, R., 92b. DuBose, H. E., 70a. Ducharme, E. P., 22b. Duck, J. W., 71b. Dudgeon, Mrs. L. T., 87a. Dudley, D. I., 126b. Dudley, R. F., 69a. Dudney, W. N., 122a. Duffee, F. W., 141a. Duffee, Mrs. G. R., 141b. Dugan, R. F., 138b. Dugas, A. L., 51b. Duggan, K. E., 106a. Dugger, W. M., Jr., 54a. Duisberg, P. C., 83a. Duitsman, W. W., 46b. Duke, E. L., 133a. Duke. N. D., 55a. Duley, F. L., 76a. Dulin, T. G., 26b. Dull, E. W., 107b. Dum, S. A., 20b. Dumas, W. T., 2a. Dumenil, L., 38a. Dunavan, D., 117a. Dunbar, C. O., 55b. Dunbar, J. O., 35b. Duncan, A. A., 55b. Duncan, A. O., 24b. Duncan, C. B., 121a. Duncan, C. H., 131a.

Duncan, C. W., 59a. Duncan, D. B., 133b. Duncan, D. E., 9a. Duncan, D. P., 65b. Duncan, E. R., 67a. Duncan, H. R., 119b. Duncan, J. G., 62a. Duncan. O. D., 103b. Duncan, T. E., 26a. Duncan, W. H., 24a. Dunckelman, P. H., 49b. Dungan, G. H., 31a. Dunham, C. W., 58a. Dunham, D. H., 34b. Dunham, R. S., 64a. Dunham, W. E., 98b, 100a. Dunkelberg, G. H., 116a. Dunkley, W. L., 11b. Dunlap, A. A., 125b. Dunlap, J. V., 76a. Dunlap, M., 72b. Dunlop, W. R., 80b. Dunn, B. F., 66a. Dunn, I. S., 16a. Dunn, L. E., 78a, 79a. Dunn, M. S., 87a. Dunn, P. H., 69b. Dunn, R. C., 126a. Dunn, R. H., 133a. Dunn, S. J. (Ky.), 49a. Dunn, S. J. (N. H.), 79a. Dunne, H. W., 63a. Dunnewald, T. J., 143a. Dunning, M. W., 47a. Dunson, L. R., 25a. Dunton, E. M., Jr., 133a. Dunton, H. L., 131a. Dunton, R. D., 56a. Dunwoody, C. B., 114a. DuPree, M., 26b. DuPree, W. E., 26b. DuPree, W. M., 115b. Durand, L., 121a. Durant, A. J., 73a. DuRant, A. L., 115a. Durfee, A. E., 54b. Durfee, H. K., 89a. Durham, E., 133a. Durham, H. A., 15a. Durham, S. B., 101a. Duroe, K., 4a. Durrell, D. F., 33a. Durrell, G. R., 102b. Durrell, L. W., 15a. Durrell, W. B., 130a. Durrett. M. E., 121b. Duruz, W. P., 107a. Dusenberry, H. L., 74b. Dusham, E. H., 111b. Dusi, J. L., 3b. Dustman, E. H., 98b. Dutcher, R. A., 109a. Duthie, M. E., 88b. Dutt, J. O. 111a. Dutt, R. H., 47a,

Dvoracek, D. C., 65a. Dyar, E., 16b. Dyas, E. S., 38a. Dyce, E. J., 86b. Dye, A. P., 138b. Dye, M., 61a. Dyer, A. J., 71a. Dyer, C. D., 25a. Dyer, I. A., 24a. Dykes, M., 25b. Dykstra, R. R., 45b. Dykstra, T. P., 51a.

E

Eaddy, A., 27a. Eadie, W. R., 85b. Eads, F. E., 63a. Eakin, J. H., Jr., 108a. Eakin, L. C., 126a. Ealy, R. P., 103b. Eargle, J. K., 116b. Earle, W. G., 85b. Earley, E. B., 31a. Early, E. J. F., 15b. Earp, U. F., 132a. Easley, O. W., 69a. East, J. W., 131b. Easterbrooks, H. L., 17a. Easterling, L., 6b. Eastlick, H. L., 135b. Eastman, E. H., 110b. Eastman, M., 61a. Eastman, M. A., 80b. Easton, E. C., VII. Eastwood, G. R., 97b. Eastwood, T. M., 87a. Eaton, F. B., 124b. Eaton, F. M., 125b. Eaton, H. D., 18a. Eaton, W. H., 1b. Ebeling, W., 13b. Eberhardt, L. W., 25a. Eberle, A. M., 117a. Eberly, N. M., 109b. Ebert, A. C., 107b. Ebert, E. F., 73b. Eberts, I., 142b. Ebling, W. H., 140b. Eby, C., 80b. Echo, Mrs. J., 74b. Eckblad, I. M., 136a. Eckert, J. E., 11b. Eckhardt, R. C., 68a. Eckstrom, C. R., 53a. Edaburn, Mrs. C. W., 106b. Eddins, A. H., 21a. Eddleman, J., 123a. Eddy, L. P., 143b. Edeland, H. E., 121a. Eden, A. B., 102a. Eden, W. G., 3b. Edgar, R. A., 131a. Edgar, S. A., 3a. Edgecombe, S. W., 129b. Edgerly, C. G. M., 52b,

Edgington, B. H., 98b, 100b. Edinger, P. L., 110a. Edman, M., 31b. Edminster, T. W., 132a. Edmond, J. B., 69b. Edmonds, J. L., 31b. Edmondson, J. E., 71a. Edmondson, W. O., 144b. Edmundson, M., 36b. Edmundson, W. C., 17b. Edson, A. W., 67b. Edwards, B., 124b. Edwards, C. (Ohio), 101b. Edwards, C. (Wvo.), 143a. Edwards, C. M., 86a. Edwards, F. E., 69a. Edwards, N., 28b. Efferson, H. M., 23a. Efferson, J. N., 50a. Eggert, F. P., 53b. Eggert, R., 80b. Eggleton, L. Z., 41b. Eheart, J. F., 131b. Ehlers, P. L., 76a. Ehrenkranz, F. A., 41a. Ehrler, W. L., 5a. Eichelberger, C., 87b. Eichling, H. L., 40a. Eide, C. J., 66b. Eide, P. M., 135b. Einarsen, A. S., 106a. Einerson, A. M., 36a. Einset, J., 89b. Eisenhower, M. S., III, IV, 108a. Eisenmenger, W. S., 56a. Ekern, D. J., 103a. Ekern, P. O., Jr., 142b. Ekstrom, G. F., 71b. Elder, C. 73b.
Elder, C. R., 41b.
Elder, W. C., 101a.
Elder, W. H., 73b.
Eldredge, J. C., 38a. Eldridge, F. E., 43b. Eleazer, J. M., 116b. Elfner, J. S., 142a. Elings, J. T., 104a. Elkinton, C. M., 135a. Ellarson, R. S., 143a. Ellenwood, C. W., 100b. Eller, W. H., 28b. Ellertson, F. E., 108b. Ellett, C. W., 96b. Elliff, R., 103a. Elliker, P. R., 105a. Elling, C. G., 43a. Ellingen, R. J., 140b. Ellington, E. V., IV, 134a, 135b. Elliot, J. M., 56a. Elliott, F. C. (Tex.), 123a. Elliott, F. C. (Wash.), 134a. Elliott, F. F., IV.

Edgerton, L. J., 88b.

Elliott, F. I., 17b. Elliott, J. C., 59a. Elliott, J. D., 102a. Elliott, L. H., 86a. Elliott, N. R., 48a. Elliott, R. C., 28a. Elliott, R. F., 47a. Elliott, W. H., 53a. Ellis, B. E., 45b. Ellis, C. C., 26a. Ellis, D. E., 91a. Ellis, Mrs. D. M., 127a. Ellis, E. E., 80a. Ellis, G. H., 85a. Ellis, H. M., 92a. Ellis, K. B., 143b. Ellis, L., 2b. Ellis, L. S., V, 6a, 7a. Ellis, M. W., 119b. Ellis, N. K., 37b. Ellis, R., Jr., 42b. Ellison, J. H., 89a. Elliston, P., 48b. Ellithorpe, V. M., 45a. Ellmore, M. F., 54b. Ellsworth, P. R., 97a. Ellwood, C. C., 4a. Ellzey, H. D., 52b. Elmer, H. S., 14a. Elmer, O. H., 43b. Elmore, Mrs. E., 116b. Elmore, Mrs. M. W., 4a. Elps, A. A., 56a. Elrod, B. M., 121a. Elrod, J. C., 26b. Elrod, J. M., 26a. Elting, E. C., II. Elvehjem, C. A., VII, 140a. Elwell, H. M., 104b Elwood, C. F., 9a. Elwood, E. M., 60a. Elwood, P. H., Jr., 41b. Ely, F., 96b, 99b. Embleton, H., 5b. Embleton, T. W., 14b. Embry, B. L., 129a. Embry, L. O., 118a. Emch, J. C., 138a. Emerson, C. N., 71a. Emerson, D., 55a. Emerson, E. D., 57a. Emerson, R. E., 138a. Emerson, R. L., 21a. Emge, R. G., 7b. Emmel, M. W., 22b. Emmerson, M. A., 42a. Emmert, E. M., 48a. Enfield, G. H., 34a. Engard, C. J., 28b. Engberg, C., 63a. Engebretson, A. E., 65b. Engel, R. E., 81b. Engel, R. W., 1a. Engelbert, L. E., 142b. Engelhardt, H. C., 19b.

Engene, S. A., 65a. England, R. B., 67a. Englehorn, A. J., 38a. Englehorn, C. L., 42b. Engler, K., 7a. English, L., 84a. English, P. F., 111b. English, W. H., 12b. Englund, E., IV. Enix, J. R., 102a. Ennis, L., 2a. Enns, W. R. 71b. Eno, C. G., 138a. Enright, J. B., 13a. Ensminger, L. E., 1a. Ensminger, M. E., 134b. Enzie, J. V., 84a. Enzor, J. K., Jr., 22b. Epling, C. C., 13b. Epling, G. P., 17a. Epp, A. W., 76b. Eppright, E. S., 40b. Epps, E. A., Jr., 50b. Epps, J. M., 122a. Epps, W. M., 117b. Eppson, H. F., 144a. Erb, R. E., 135a. Erdman, H. E., 8b. Erdmann, M. H., 62b. Ergle, D. R., 125b. Erhart, A. B., 46b. Erickson, Mrs. A. C., 95b. Erickson, A. E., 63a. Erickson, Mrs. A. H., 135b. Erickson, E., 62a. Erickson, L. C. (Calif.), 14b. Erickson, L. C. (Idaho), 29a. Ericson, M. H., 87b. Erie, L. J., 118b. Erikson, S. E., 48a. Erion, G. W., 117a. Erler, D., 60b. Ernest, C. T., 51b. Ernst, F. H., 9a. Erp, M., 136a. Errington, P. L., 42b. Erway, Mrs. D. W., 87b. Erway, J., 11b. Erwin, A. T., 41b. Erwin, C. C., 71b. Erwin, L. E., 43a. Erwin, T. C., 23a. Esau, K., 11a. Eschenwald-Hess, A., 112b. Eshbaugh, E. L., 44b. Eskew, E. B., 115a. Eslick, R. F., 73b. Esmay, M. L., 40a. Espe, D. E., II. Espinet, G., 113a. Esplin, A. C., 128a. Esplin, A. L., 15a. Essary, E. O., 122a. Esselbaugh, N. C., 136a. Esselen, W. B., 58a.

Essig, E. O., 9a. Esteros, G., 66a. Etchells, J. L., 93a. Etheridge, M. P., 68b. Etheridge, W. C., 72a. Ethridge, R., 69b. Eubank, Mrs. C., 139a. Euler, R. S., 35b. Eure, W. A. 132b. Evans, C. D., 115b. Evans, D. L., 50a. Evans, E. B., 127a. Evans, E. M., 1a. Evans, H. C., 138a. Evans, H. J., 90a. Evans, H. M., 10a. Evans, J. C., 54b. Evans, J. S., 116a. Evans, L. B., 83a. Evans, M., 83b. Evans, M. B., 100a. Evans, M. D., 120a. Evans, N. A., 95a. Evans, R. J., 59a. Evans, T. H., 15b. Evans, W. H., 81a. Eveleth, D. F., 94b. Everett, E., 61a. Everett, H. L., 19b. Everitt, W. L., VII. Everly, R. T., 36a. Evers, J. L., 91a. Everson, A. C., 5a. Everson, G. J., 41a. Everson, J. N., 56a. Everson, L. E., 39a. Every, R. W., 105b. Ewalt, H. P., 105a. Ewart, W. H., 14a. Ewing, B., 70b. Ewing, E. C., 70b. Ewing, J. A., 119a. Exner, M. V., 40a. Eyer, J. R., 83a. Ezzell, A., 2b.

1

Faberge, A. C., 71a. Fabian, F. W., 63a. Faddoul, G. P., 58b. Fader, Mrs. F. E., 20b. Fagerson, I. S., 58a. Fagin, I., 9a. Failing, J., 84a. Fairbank, J. P., 9a. Fairbanks, D. W., 135b. Faires, E. W., 91a, 93b. Falconer, J. I., 97a, 99b. Fales, D. B., 86b. Falkenberg, G. V., 37b. Falkner, M., 120b. Fallgatter, F. A., 40b. Fallis, R. W., 48b. Falloon, J. W., 73a. Faltinson, J. M., 40b.

Faneuf, L. J., 80a. Fang, S. C., 105a. Fanning, J. W., 24b. Fanning, P. K., 135b. Faris, E. T., 27a. Farish, L. R., 70b. Farley, A. J., 81b. Farley, H., 104a. Farmer, E. L., 43b. Farmer, L. E., 24b. Farmer, R. F., 16b. Farner, D. S., 135b. Farnham, C. H., 31a. Farnham, E. S., 118b. Farnham, F. R., 91a. Farnsworth, M. W., 73b. Farquharson, J., 17a. Farrall, A. W., 60b. Farrand, W. B., 75a. Farrar, C. L., 141a. Farrar, M. D., 116b. Farrell, E. P., 45b. Farrell, F. D., 44a. Farrell, M. A., V, 108a. Farris, M., 74b. Farris, N. F., II. Farwell, E. D., 59a. Fauber, H., 17b. Faught, W. A., 68b. Faulconer, B., 20b. Faulkner, E. K., 143b. Faulkner, J. G., 119a. Faulkner, L. R., 83a. Faulkner, T. L., 2a. Fausch, H. D., 67b. Faust, H., 9a. Faust, R. A., 34b. Fautin, R. W., 144b. Faville, L. W., 22b. Fawcett, J. B., 81a. Fawcett, K. I., 37b. Fazio, S., 5b. Feaster, C. V., 72a. Featherly, H. I., 101b. Feder, E., 118a. Federer, W. T., 88a. Feeley, R. O., 116b. Fees, M. K., 5b. Fehrenbacher, J. B., 31a. Fehrmann, F. L., 123a. Feibel, F., 17a. Feibel, M. C., 18a. Felder, Mrs. A. P., 69b. Feldman, A. W., 114b. Feldman, H., 85a. Fellhauer, A., 143b. Feliberti, M., 112a. Felix, E. L., 122a. Fellers, C. R., 58a. Fellows, G. W., 58b. Fellows, H., 43b. Fellows, I. F., 18a. Felton, F. E., 57a. Felts, J. H., 122b. Fenn, G. G., 74b.

Fenne, S. B., 133a. Fennel, W. E., III, 73b. Fennell, R. A., 64a. Fenske, J., 74b. Fenske, T. H., 64a. Fenstermacher, R., 67a. Fenton, F., 87a. Fenton, F. A., 102b. Fenton, F. C., 44b. Fergus, C. L., 109a. Fergus, E. N., 46a. Ferguson, A. C., 16b. Ferguson, B., 139a. Ferguson, B. L., 51a. Ferguson, C. E., 123a. Ferguson, C. M., VI, 96a, 97b. Ferguson, F. E., 41b. Ferguson, F. P., 109b. Ferguson, H. K., 20b. Ferguson, J. C., 92a. Ferguson, J. E., 7a. Ferguson, J. M., 44b. Ferguson, L. C., 98b, 99b. Ferguson, T. M., 123b. Fernández, D., 113b. Fernández, Mrs. M. del C. C., 113a. Fernow, K. H., 88a. Ferree, R. J., 116b. Ferrell, E. K., 119a. Ferrer, M. E., 111a. Ferrer-Monge, J. A., 112a. Ferrier, W. T., 115b. Ferrigan, Mrs. M., 15b. Ferrin, E. F., 64a. Ferringer, E. C., 36b. Ferry, J. F., 1b. Fertig, S. N., 84a. Ferwerda, V. L., 58a. Fessenden, Mrs. B. E., 56b. Fessenden, R. W., 56b. Feuer, R., 79a. Fidler, L. B., 97a. Fieger, E. A., 49b. Field, G., 57b. Field, J. T., 143b. Fielder, V. B., 6b. Fields, J. N., 59b. Fields, M. A., 133b. Fifield, W. M., 21a. Figarella, E., 112b. Fike, J. E., 138a. Filinger, G. A., 45a. Filmer, R. S., 81a. Filz, W. F., 106a. Fina, L. R., 144b. Finch, H. D., 16a. Finch, H. M., 2b. Fincham, R. C., 39a. Fincke, M. L., 106b. Findlay, J. P., IV. Fine, L. O., 117a. Fink, H. C., 91a. Finkner, A. L., 93a. Finkner, M. D., 68a.

Finlayson, C., 95b. Finley, A., 30b. Finley, W. L., 59a. Finnegan, E. J., 56b. Finnegan, H., 131a. Finnell, H. E., 106a. Finnell, H. H., 101a, 104a. Finnerty, D., 76a. Finney, G. L., 8a. Finney, J. C., 20a. Finney, K. F., 45b. Firehammer, B. D., 75a. Firkins, B. J., 38a. Firor, G. H., 25b. Firor, J. W., 24b. Fisch, H. C., 60b. Fischer, C. M., 105b. Fischer, G. W., 136b. Fischer, J. L., 120b. Fish, A. S., 45a. Fish, E. E., 47b. Fisher, C. E., 127a . Fisher, E. G., 88b. Fisher, E. H., 141a. Fisher, E. J., 74b. Fisher, F. E., 22b. Fisher, F. L., 123a. Fisher, G., 120a. Fisher, H. J., 19a. Fisher, H. S., 2b. Fisher, J. W., 52a. Fisher, K. H., 110b. Fisher, M. C., 41a. Fisher, M. D., 72b. Fisher, W. D. (Calif.), 8b. Fisher, W. D. (Tenn.), 119a. Fisher, W. J., 94a. Fishler, D. W., 106a. Fisk, F. W., 98b. Fitch, F. W., 24a. Fitch, J. B., 64b. Fitts, J. W., 38a. Fitzgerald, A. D., 49b. Fitzgerald, J. W., 62a. Fitzgerald, M., 72b. Fitzgerald, N. E., 120b. Fitzgerald, O. A., 30b. Fitzgerald, T. C., 3a. Fitzpatrick, R. A., 57a. Fitzpatrick, W. H., 58a. Fitzsimmons, C., 37a. Fitzsimmons, J. R., 41b. Fitzsimmons, R., 130a. Fix. W. F., 36b. Flanders, C. A., 138a. Flanders, S. E., 14a. Flannery, R. L., 46a. Fleetwood, J. R., 72a. Fleming, C. E., 78a. Fleming, D. E., 45b. Fleming, H. K., 111a. Fleming, J. D., 101a. Fleming, J. W., 7b. Fleming, M. K., 91b.

INDEX OF NAMES

Flemming, W. R., 115b. Fleschner, C. A., 14a. Fletchall, O. H., 72a. Fletcher, J. L., 68a. Fletcher, M. G., 45a. Fletcher, P. W., 72a. Fletcher, R. F., 111a. Fletcher, W. H., 120a. Flick, P. B., 110b. Flikke, A. M., 65a. Flint, A. E., 56a. Flint, J. C., 67a. Flint, L. H., 49b. Flint, O. S., 58b. Flint, W. E., 83a. Flipse, R. J., 109a. Flom, K. S., 65b. Flor, H. H., 96a. Flora, C. C., 132a. Florea, Mrs. R. S., 71b. Flory, J., 72b. Flower, A. E., 74a. Flowers, J. L., 69a. Flowers, K. E., 46a. Flowers, W. A., 122a. Floyd, D. L., 24a. Floyd, E. H., 51b. Floyd, J. C., 50a. Floyd, J. W., 129a. Fluke, C. L., 141a. Fly, C. L., 43a. Flynn, L. M., 71a. Fobbs, A. D., 70a. Fobbs, Mrs. J. M., 70a. Fogel, M. M., 118b. Fogle, H. W., 136b. Fohn-Hansen, L., 4a. Foker, A. M., 67b. Foley, M. E., 58a. Foley, R. C., 56a. Folks, S. J., 21a. Follett, A. O., 140b. Folmar, G. D., Jr., 122b. Folse, C. L., 31b. Folse, D. S., 3a. Folsom, D., 53b. Foltz, V. D., 43a. Folz, W. E., 30a. Font, R., 112b. Fontenot, J., 51a. Foote, C., 72b. Foote, L. E., 104a. Foote, M. W., 130a. Foote, R. H., 84b. Foote, W. H., 106a. Footen, W. J., 55b. Forbes, I. L., 49a, b, 50b. Forbes, R. B., 22b. Forbes, R. L., 10b. Forbes, R. M., 31b. Forbes, W. T. M., 86b. Ford, E. S., 21a. Ford, G. W., 6a. Ford, H. F., 35b.

Ford, H. W., 22b.

Ford, J. C., 2b. Ford, J. E., 92b. Ford, J. H., 2b. Ford, K. E., 26b. Ford, M. E., 85a. Ford, O. W., 35a. Ford, R., 80b. Ford, R. E., 16a. Ford, R. H., 47b. Ford, R. R., 66a. Ford, Z. T., 117b. Fore, R. E., 106a. Forehand, J. F., 24b. Foreman, C. F., 43b. Foreman, P. B., 103b. Foreman, P. E., 127a. Forest, I., 133b. Form, W. H., 62b. Forrest, L. A., 90a. Forrester, R. S., 54b. Forsee, W. T., 23a. Forster, G. W., 91b. Forster, T. L., 94a. Forsyth, R. L., 12a. Forsyth, V. B., 18b. Forsythe, R. H., 42a. Fort, R. E., 44b. Forth, M. W., 32b. Fortmann, H. R., 108a. Forward, J. F., 72b. Fosberg, M. A., 29a. Fosbrink, R. H., 34a, 36b. Fosgate, O. T., 140b. Fosler, G. M., 33b. Foss, E. W., 86a. Foster, A. A., 88a. Foster, A. P., 80a. Foster, A. S., 132a. Foster, D. L., 23a. Foster, E. M., 140a. Foster, G., 37a. Foster, Mrs. G., 87a. Foster, G. S., 121a. Foster, H. H., 115a. Foster, H. J., 60b. Foster, J. D., 48b. Foster, J. E., 54a. Foster, J. F., 39b. Foster, J. R., 55a. Foster, J. W. (Ga.), 26a. Foster, J. W. (Ky.), 47a. Foster, Mrs. M. S., 61a. Foster, R. E., II, 5b. Foster, Z. C., 29a. Foulds, R. T., Jr., 130b. Foulkrod, J., 61b. Fountaine, F. C., 43b. Fournet, E., 51a. Fourt, D. L., 29b. Fourt, L. A., 95a. Foust, H. L., 42a. Fouts, E. L., 21b. Fouts, K. C., 76a. Fowler, G. R., 42a. Fowler, R. G., Jr., 107a.

Fowler, R. H., 134a. Fowler S. F., 72b. Fox, A. G., Jr., 79b. Fox, A. S., 98b. Fox, C. L., 104b. Fox, H. W., 32b. Fox, R., 41b. Fox, R. L., 76a. Fox, R. T., 87a. Fox, S. W., 39b. Fox, W. B., 91a. Foy, J. T., 115b. Foytik, J., 11b. Fracker, S. B., IV. Frahm, E. E., 74a. Frame, B. H., 71b. France, R. L., 56a. Francioni, J. B., Jr., 49a. Frandson, R. D., 17a. Frang, Mrs. M. A., 61b. Frangquist, B. C., 60b. Frank, F. A., 127b. Frank, N. A., 100b. Franke, L. J., 125b. Franklin, D. F., 30b. Franklin, H. J., 58b. Franklin, J. J., 2b. Franklin, R. E., 87b. Franklin, T. E., 126a. Franklin, W. W., 44b. Frans, R. E., 81b. Franzke, C. J., 117b. Fraser, R. R., 37b. Frasier, R., 136a. Frayer, J. M., 130a. Frazer, P. W., 22a. Frazier, E. I., 2a, b. Frazier, J. C., 43b. Frazier, N. W., 9a. Frazier, W. A., 107a. Frazier, W. C., 140a. Frear, D. E. H., 109a. Fred, E. B., IV, 139a. Frederick, L. R., 34a, 35a. Frederickson, R., 95a. Fredrickson, Mrs. C. D., 128b. Freeborn, S. B., 8a, 9a. Freed, V. H., 106a. Freels, Mrs. P. E., 48a. Freeman, C. H., 87a. Freeman, E. J., 106b. Freeman, G. A., 68b. Freeman, G. R., 22b. Freeman, J. F., 46a. Freeman, J. N., 73a. Freeman, M. E., 95a. Freeman, Mrs. R. C., 33a. Freeman, T. R., 47a. Freeman, V. A., 60b. Freeman, V. C., IV, V, VI, 34a, b. Freeman, W. H., 27a. Freitag, J. H., 9a. French, A. L., Jr., 21b. French, A. P., 58a.

French, B., 76b. French, C. E., 108b. French, D., 39b. French, O. C., 86a. French, R. B., 22a. Frenzel, A. O., 124a. Freund, R. E., 91b. Frevert, R. K., 40a. Frey, K. J., 61a. Frey, P. R., 15b. Freyre, R. H., II. Freytag, F. C., 143b. Friant, R. J., 137a. Friberg, W. R., 30a. Frick, K. E., 135b. Fricke, R. F., 86b. Friemel, H., 55a. Friend, Mrs. F., 7a. Friend, R. B., 19a. Friley, C. E., IV, 38a. Frings, H. W., 111b. Frischknecht, C., 128a, 129a. Fritz, D. B., 144b. Fritz, E., 9b. Frizzell, E. G., 122b. Frojen, B., 28b. Froker, R. K., V, 139a. Frolik, E. F., 76a. Fromme, F. D., II, V. Frost, J. T., 34b. Frost, K. R., 5a. Frost, S. W., 111b. Frost, W. T., 108a. Frutchey, C. W., 16b. Fry, B. O., 27a. Fry, D. E., 114a. Fry, J. M., IV, VI, 108a, 110a. Fry, M. L., 114b. Frye, J. B., 50a. Fryer, H. C., 45b. Fryman, L. R., 31b. Fudge, J. F., 123a. Fuelleman, R. F., 31a. Fuerst, R. G., 55b. Fugett, K. A., 124a. Fujimoto, G., 29a. Fukunaga, E. T., 29b. Fuller, A. H., 132b. Fuller, J. E., 56a. Fuller, J. G., 137a, 140a. Fuller, J. P., 126a. Fuller, L., 63a. Fuller, V., 8b. Fuller, W. H., 5a. Fullerton, J. O., 7a. Fullilove, W. T., 26b. Fullmer, O. H., 91a. Fulton, B. B., 91a. Fulton, C. M., 12a. Fulton, G., 4a. Fulton, J. P., 8a. Fulton, N. D., 8a. Fulton, R. W., 142a. Fulton, Z. M. K., Jr., 132a. Fults, J. L., 15a.

Funk, E., 102a. Funk, E. M., 72b. Fuqua, M. E., 97b. Furman, D. P., 9a. Furniss, N. F., 15b. Furnival, G. M., 69b. Furrer, J. D., 76a. Futral, J. G., 26a.

7

Gaalaas, R. F., 94a. Gaar, M. C., 50a. Gabbard, L. P., 124a. Gabelman, W. H., 142a. Gabriel, Mrs. E. W., 87a. Gabrys, J., 57a. Gaddis, E., 69a. Gaebe, O. F., 32b. Gaessler, W. G., 39b. Gaillard, J. T., 2b. Gaines, J. C., 124b. Gaines, J. G., 27a. Gaines, J. P., 68b. Gaines, P. C., 74a. Gaines, T., 100a. Gainey, P. L., 43a. Gairloch, S. S., 114a. Galbraith, R. L., 121b. Gale, G. D., 16b. Galeotti, C., 104a. Gall, H., 99b. Gallaher, G. L., 11b. Galle, F. C., 122a. Gallegly, M. E., Jr., 138b. Galli, M., 79b. Galloway, D. O., 120a. Galloway, H. M., 101a. Gallup, W. D., 102a. Galpin, S. L., 137a. Gambill, E. W., 120b. Gamble, J. F., 19b. Gamble, M. E., 37a. Gamble, P. L., 57a. Gamble, S. J. R., Jr., 131b. Gamble, W. K., 95a. Gambrell, F. L., 89a. Gammon, N., 22b. Gandía-Díaz, H., 113b. Gandy, L., 104a. Gandy, T. W., 2a. Gannon, A. F., 26a. Gannon, E. A., 35b. Gannon, F. A., 41a. Ganschow, E. G., 4b. Garbarino, A. J., 120b. García, A., 113b. García-Molinari, O., 111a. Gard, L. E., 34a. Gard, R. W., 142b. Gardenhire, J. H., 126b. Gardiner, J. L., 84b. Gardiner, M. R., 27a. Gardner, B. M., 15a. Gardner, E. J., 129b. Gardner, J. S., 48a.

Gardner, Mrs. K., 61b. Gardner, K. E., 31b. Gardner, L. P., 53b. Gardner, M. E. (Calif.), 12a. Gardner, M. E. (N. C.), 93a. Gardner, M. W., 10a. Gardner, R., 14a. Gardner, Mrs. R. H., 129a. Gardner, R. V., 115b. Gardner, W. H., 134a. Garey, J. C., 109a. Garfield, M. S., 40b. Garin, G. I., 2a. Garland, W. J., 57b. Garlick, B. J., 61b. Garman, P., 19a. Garman, W. H., II. Garman, W. L., 84a. Garner, C. G., 24b. Garner, H. B., 70a. Garner, R. A., 60a. Garner, W. E., 24b. Garnes, C. M., 23a. Garnett, W. E., 132a. Garren, K. H., 1b. Garrett, B. F., 139a. Garrett, J. C., 103b. Garrett, R. C., 124b. Garrigus, U. S., 31b. Garrigus, W. P., 46b. Garris, E. W., 21b. Garris, H. R., 91a. Garrison, E. A., 106b. Garrison, E. R., 6a. Garrison, O. B., 116b. Garrison, R. H., 115a. Garrow, G. S., 2a, b. Garside, M. S., 47b. Gartner, J. B., 93a. Garvey, M. E. M., 56a. Garvin, A. L., 97b. Garvin, J. G., Jr., 53a. Garvin, P. M., 116a. Gary, L. M., 20a. Gaskill, E. F., 56a. Gaskill, J. O., 15a. Gaskins, W. W., 2a. Gassett, L. J., 121b. Gassner, F. X., 16b. Gastler, G. F., 118a. Gaston, H. P., 62a. Gatchell, D. K., 2b. Gates, A. D., V, VI, 6a, 7a. Gates, D. E., 44b. Gates, F. C., 43b. Gates, R. L., 76b. Gates, W. H., 51b. Gattis, J. L., 7a. Gatton, D., 106b. Gauch, H. G., 54a. Gault, L. V., 48b. Gaunt, S. N., 56b. Gaunya, W. S., 18a. Gausman, C. E., 14b. Gausman, G. J. 14b.

Gauss, J., 109b. Gaylord, D. C., 18a. Gaylord, F. C., 37b. Gazaway, H. P., 15b. Gaztambide - Arrillaga, C., 112a. Gaztambide, J. B., 112b. Gearhart, C. R., 109a. Geddes, W. F., 64b. Gee, L. L., 123b. Gehrke, C. W., 71a. Geiger, G., 37a. Geiger, H. E., 40b. Geiszler, G. N., 96b. Gelbach, R. W., 134b. Gellman, I., 82b. Gelpi, A. J., 50a. Gelpf, E., 112a. Gelpí, F., 113b. Geltz, C. G., 22a. Gemmer, E. W., 22a. Genter, C. F., 131a. Gentner, L. G., 108b. Gentry, D., 47b. Gentry, L., 136a. Genung, W. G., 23a. George, A. G., 76b. George, D. W., 126b. George, I. D., 51b. George, J., 135b. George, L. V., 50a. George, M. C., 8a. Georgi, C. E., 76b. Gephart, M. L., 61b. Gerber, G. W., 44a. Gerber, R. K., 129b. Gerdemann, J. W., 31a. Gerhardt, P. D., 14a. Gerhardt, R. W., 143a. Gerhold, N. R., 15a. Gerken, J., 119a. Gerlach, C. S., 62b. Gerlaugh, P., 99a. German, H. L., 125b. Gerritsen, G. C., 59a. Gerry, H. E., 74a. Gerry, R. W, 53b Gershoy, A, 130a Gerstel, D. U., 90a. Gesell, S. G., 111b. Getchell, A. S., 53a. Getchell, J. S., 52b Getty. R, 42a. Getty, R. E., 40b. Geyer, H. E., 100b. Gholson, J. H., 71a. Gholston, L. E., 68a. Giamalva, M. J., 51b. Giandonato, Mrs. R. H., 19b. Gibb, D. B., 23a. Gibbon, S. R., 140a. Gibbons, E. H., 123b. Gibbons, L. L., 16a. Gibbons, W. J., 3a. Gibbs, J., 92b.

Gibbs, L. C., 84a. Gibbs, L. W., 126a. Gibbs, R. E., 53a. Gibbs, S. D., 89a. Gibert, J. G., 50b. Gibson, A. W., III, VI, 84a. Gibson, D. L., 62b. Gibson, E. J., 27a. Gibson, G. G., 123a, 124b. Gibson, H. B., 47b. Gibson, H. F., 2a. Gibson, M. E., 102a. Gibson, P. B., 1a. Gibson, W. L., Jr., 132a. Giddens, J. E., 24a. Gieger, M., 68b. Gienger, G. W., 55a. Gier, H. T., 46a. Gies, C., 74b. Giese, H., 40a. Gieseker, L. F., 74a. Gieseking, J. E., 31a. Gifford, E. M., Jr., 11a. Gifford, P. F., 16a. Gifford, W., 6a. Gilbert, C. E., 121b. Gilbert, C. J., 117b. Gilbert, C. S., 144a. Gilbert, E., 55a. Gilbert, F. A., 142a, 143b. Gilbert, H. W., 37b. Gilbert, J., 54b. Gilbert, J. C., 29b. Gilbert, M. J., 90a. Gilbert, R. W., 114a. Gilbertson, G. I., 117a, 118b. Gilbreath, J. C., 6a. Gilchrist, G., IV, 123a. Gilcreast, R. J., 95a. Gilden, R. O., 135b. Gildersleeve, T. W., 96b. Gile, B. M., 50a. Giles, G. W., 92a. Giles, N. R., 71a. Giles, W. L., 68a. Gilgut, C. J., 58a. Gilkey, H. M., 105a. Gill, C. E., 131b. Gill, D. L., 27b. Gill, J. B., 70b. Gillaspie, B. V., 7b. Gillen, W. K., 106a. Gillespie, F. L., 100a. Gillespie, R., 137a. Gillespie, R. M., 63a. Gillett, L., 47b. Gilley, B. L., 132a. Gilligan, G. M., 20a. Gillum, H. L., 10a. Gilly, C. L., 59a. Gilman, J. C., 39a. Gilman, P. A., 79a. Gilman, R., 21a. Gilmer, P. M., 27b. Gilmore, A. E., 12b.

Gilmore, F. L., 129a. Gilmore, H. C., 109a. Gilmore, L. E., 97b, 100a. Gilmore, L. O., 96b, 99b. Gilmore, R. M., 89b. Gilmore, T. R., 122a. Gilstrap, M. A., 134b. Giltz, M., 98b. Ginocchio, O. L., 48b. Ginsburg, J. M., 81a. Ginter, A. E., 72b. Girton, R. E., 34b. Gish, C. L., 16b. Gish, N. R., 107a. Gish, P. T., 133b. Gisler, T., 73b. Gissendanner, S. E., 3b. Gist, R. H., 138a. Givens, R. L., 132a. Glantz, P. J. 108b. Glasgow, L. L., 51a. Glass, D. A., 17a. Glass, E. H., 89a. Glass, W. I., 124b. Glasscock, R. S., 21a. Glazener, E. W., 93a. Gleeson, G. W., VI, VII. Glenn, Mrs. G. W., 100a. Glenn, M. A., 1a. Glick, D. N., 62b. Glick, P. A., 124b. Glissendorf, O., 60a. Glisson, O., 132b. Glock, M. D., 86a. Glover, A. C., 32a. Glover, H. W., 132a. Glover, J. H., 118a. Glover, O. B., 44b. Glover, W. R., 69a. Goad, B., 69a. Gobble, C. F., 34b. Gobble, J. L., 108b. Gober, N. M., 101a. Goble, E. L., 36a. Goble, J. W., 76b. Goble, W. E., 120b. Godbey, C. B., 125a. Godbey, E. G., 115a. Goddard, M. K., 110a. Godfrey, G. F., 103b. Godfrey, G. H., 127b. Godfrey, R. K., 91a. Godfrey, R. L., 131a. Godley, W. C., 115a. Goebel, N. B., 116b. Goedert, F., 94a. Goen, O. F., 21a. Goens, Mrs. V. G., 139a. Goering, K., 74a. Goetz, C. A., 39b. Goff, O. E., 122a. Goggans, J. F., 2a. Goheen, A. C., 82a. Gold, A. H., 10a. Goldberg, A., 114b.

Golde, V., 88b. Golden, J., 2b. Golding, N. S., 135a. Goldsby, A. I., 94b. Goldston, E. F., 90a. Gómez-Montoya, D., 111b. González, A., II. González, Mrs. A. D., 112b. González, F., 112b. González-Chapel, A., 113b. González-Mas, A., 112a. González-Ríos, P., 113a. González-Saldaña, J. A., 112b Gooch, E. D., 48b. Good, B. H., 59a. Good, D. L., 43a. Good, E. E., 98b. Good, H. G., 3b. Goodale, B. E., 115b. Goodale, W. A., 79b. Goodbary, A., 118a. Goodding, J. A., 43a. Goodding, T. H., 76a. Goode, D. M., 107a. Goode, L., 91a. Gooding, P. H., 116b. Goodman, A. A., 17a. Goodman, A. M., 86a. Goodman, J. G., 3a. Goodman, J. W., 92b. Goodmonson, P. N., 105b. Goodnight, C. J., 34b. Goodspeed, A. W., 138b. Goodwin, G., 58a. Goodyear, M. R., 33a. Gordeuk, S., Jr., 108b. Gordon, A. G., 70b. Gordon, D. D., 70a. Gordon, E. L., 86a. Gordon, G. E., 9a. Gordon, H. H., 32b. Gordon, H. T., 9a. Gordon, J. A., 8a. Gordon, M. A., 69b. Gordon, P. E., 92b. Gordon, S. E., 131b. Gordon, V. H., 130b. Gordon, W. R., 109b. Gordy, J. F., 20a. Gore, G. W., 23a. Gore, U. R., 26a. Gorham, E. R., 66a. Gorman, E., 105b. Gorham, J., 137b. Gorman, J. A., 143b. Gorman, N. D., 95a. Gorrell, Mrs. F. L., 97b. Gorz, H. J., 95b. Gosline, W. A., 29b. Goss, E. F., 39b. Goss, H., 11a. Goss, R. W., VII, 78a. Goto, Y. B., 28a. Gottlieb, D., 33b. Gouaux, C. B., 51b.

Gough, Mrs. H. W., 84a. Gould, B., 103a. Gould, C. J., 136b. Gould, E., 139b. Gould, F. W., 125b. Gould, G. E., 36a. Gould, H. G., 75a, 77a. Gould, I. A., 97a, 99b. Gould, W. A., 98a, 100b. Gourd, C. D., 17a. Gouwens, E. P., 41a. Gowder, M. T., 120b. Gowen, J. W., 40b. Graber, L. F., 140a. Graddy, E., 86b. Graddy, I. C., 47b. Grady, J. C., Jr., 71b. Graf, G. C., 132a. Graf, W. L., 122b. Graff, E. F., 40a. Grafius, J. E., 117b. Grah, R. F., 9b. Graham, A. F., 72a. Graham, B. F., 53a. Graham, C., 55a. Graham, C. A., 117a. Graham, D. W., 23a. Graham, E. R., 73a. Graham, J., 41a. Graham, J. A., 93b. Graham, M. E., 97b. Graham, R., 33b. Graham, R. E., 110b. Graham, R. J., 77a. Graham, S. O., 136b. Graham, T. W., 117b. Graham, W. F., 36b. Gram, M. R., 77b. Grandfield, C. O., 43a. Grandy, J. R. 94a. Grandy, M. C., 16a. Granett, P., 81a. Granger, R. H., 79a. Granovsky, A. A., 65b. Granson, J. E., 40b. Granstaff, E. L., 101a. Grant, B. F., 25a. Grant, B. V., 61b. Grant, J., 27a. Grant, P., 106b. Grant, R., 113b. Gratz, L. O., 21a. Grau, C. R., 10b. Graul, E. J., 142b. Graumann, H. O., 76a. Graves, A. H., 19b. Graves, A. P., 94a. Graves, H. A., 96a. Graves, J. T., 115a. Graves, M. L., 132b. Graves, T., 2b. Gravett, H. L., 123b. Gray, C. C., III, 133b. Gray, E. R., 33a. Gray, G., III, 90a.

Gray, H. E., 86a. Gray, J. A., 123b. Gray, J. L., 92b. Gray, J. P., 49a. Gray, J. R., 74b. Gray, M. E., 63a. Gray, T. D., 138b. Gray, W. D., 96b. Gray, W. H., 67b. Grayson, J. M., 131b. Grayson, U. G., Jr., 48b. Greaves, Mrs. E. O., 129a. Greaves, M. J., 129a. Greb, R. J., 118b. Green, E. L., 98b. Green, F. M., 17b. Green, G. D., 68a. Green, H. B., 70a. Green, H. W., 2a. Green, J. M., 101a. Green, J. W., 93a. Green, L. B., 61b. Green, M. E., 97b. Green, M. M., 12a. Green, R. L., 50b. Green, R. M., III. Green, V. L., 45a. Green, W. W., 54a. Greene, J. E., 3a. Greene, L., 37b. Greene, R. E. L., 21b. Greenfield, C. E., 58a. Greenleaf, W. H., 2b. Greenlee, C. O., 39b. Greenman, J. R., 21b. Greenwood, D. A., 128b. Greenwood, D. E., 133a. Greenwood, M. J., 78b. Greenwood, M. L., 18b. Greer, Mrs. M. H., 139a. Greey, D. M., 61b. Gregory, C. L., 73a. Gregory, H. W., 35b. Gregory, J. S., 16b. Gregory, K. F., 71a. Gregory, O., 72b. Gregory, P. W., 11a. Gregory, S. M., 35b.
Gregory, W. C., 90a.
Gregory, W. F., 1b.
Gregory, W. H., 2b.
Greig, J. K., Jr., 7b. Grennell, M. C., 21a. Gresham, J. A., 23a. Grey, C. G., II. Griebler, W. L., 105b. Grier, H. E., 4a. Gries, G. A., 35a. Griffee, F., V, 52a. Griffin, F. L., 11b. Griffin, H., 105a. Griffin, J. G., 69a. Griffin, J. H., 31a. Griffin, M. M., 78b. Griffin, W., 82b.

Griffing, J. B., 40b. Griffith, A. A., 60b. Griffith, C. H., 67b. Griffith, J. M., 119b. Griffith, P. W., 42a, 44b. Griffiths, H. J., 67a. Griffiths, J. T., 22b. Griggs, W. H., 12b. Grigsby, B. H., 59a. Grigsby, R. M., 50a. Grimes, J. C., 1a. Grimes, M. A., 125a. Grimes, R. M., 59a. Grimsley, Mrs. C. J., 92b. Grinde, P. M., 80a. Griner, L. A., 17a. Grinnell, H. C., IV, 79a, b. Grinnells, C. D., 91a. Grinslade, S., 83b. Grismer, A. R., 118a. Grissom, E. E., 68a. Grissom, P. H., 70b. Grogan, R. G., 12b. Gronberg, J. I., 16a. Grosch, D. S., 91a. Groschke, A. C., 62b. Grose, E. C., 108b. Groskopf, G., 141b. Gross, A. E., 107b. Gross, C. R., 35b. Gross, D. L., 76a. Gross, H. D., 81b. Gross, I. H., 61a. Gross, I. M., 86b. Gross, W. B., 131b. Grossman, J. D., 98b. Groth, A. H., 73a. Groupe, V., 82a. Grove, A. R., Jr., 109a. Grover, B. L., 46b. Groves, A. B., 133a. Groves, K., 135a. Grow, T. A., 57a. Grubb, C. E., 19a. Grubbs, J. R., 125b. Grubbs, S. F., 132b. Gruelle, Mrs. K. B., 28b. Grumbles, L. C., 126a. Grummer, R. H., 140a. Grunder, M. S., 134a. Guard, A. T., 34b. Guard, W. F., 98b. Guba, E. F., 56a. Guenther, R. M., 48a. Guenther, W. B., 4a. Guerrant, N. B., 109a. Guevara, M. C., 113b. Guhl, A. M., 46a. Guilbert, H. R., 11a. Guiler, G. S., 97a. Guillou, R., 28a. Guise, C. H., 85b. Gulick, R., 96a. Gulley, M., 48a. Gullickson, T. W., 64b.

Gulvin, H. E., 114b. Gunderson, H., 42b. Gundlach, A., 141b. Gunkel, W. W., 86a. Gunn, A. J., 28b. Gunn, C. A., 59b. Gunn, J. T., 11b. Gunnell, M. H., 129b. Gunter, A. C., 124b. Gunther, F. A., 14a. Guravich, D., 70b. Gustafson, D. C., 16b. Gustafson, D. P., 38a. Gustafson, G. W., 74b. Gustafson, R. O., 138b. Gustavson, R. G., III, IV, VII, 75a. Guterman, C. E. F., 84a. Guthrie, G., 77b. Guthrie, H. A., 110b. Guthrie, M. E., 77b. Guthrie, M. J., 73b. Guthrie, M. L., 121b. Guthrie, Mrs. M. T., 83a.

Gysel, L. W., 59b.

Guyer, P. Q., 71a.

Guymon, J. F., 13b.

Gwin, J. M., 54a, 55a.

Gyrisco, G. G., 86b. Gyrisco, V., 87b.

Guyton, F. E., 3b.

Haag, J. R., 105a. Haak, Mrs. P. J., 47b. Haas, A. J., 139a, 141a. Haas, A. R. C., 14b. Haas, C. A., 97b. Haasis, F. A., 93b. Haasl, B. D., 140a. Haber, E. S., 41b. Haber, J. M., 109a. Haberly, M., 30b. Habig, E., 37a. Hablutzel, E., 4a. Hackleman, J. C., 31a. Haddock, D., 113.a Haddock, J. L., 128a. Haddon, C. B., 52a. Hadjimarkos, D., 106b. Hadley, H. H., 125a. Hadley, N. S., 35b. Hadlow, W. J., 67a. Haenseler, C. M., 82a. Haferkamp, M., 134a. Haff, E. L., Jr., 8b. Hagan, A. R., 71b. Hagan, G. C., 58a. Hagan, R. M., 12a. Hagan, W. A., III, VIII. Hagans, F., 44b. Hage, T. J., 13a. Hagedorn, D. J., 140a, 142a. Hagelberg, M., 60a. Hagelberg, R. R., 35a. Hagge, A. H., 39a.

Hagler, T. B., 2b. Hagman, I. C., 48a. Hagmann, L. E., 81a. Hagood, E. S., 26a. Hagood, M. A., 107b. Hahn, B. E., 74a. Hahn, H. H., 100a. Haig, F. M., 91a. Haigh, L. D., 71a. Haines, P. G., 123a. Haines, W. T., 31b. Hairston, C. T., 139a. Hakanson, V. E., 87a. Halbert, J. M., 104a. Halbrook, E. R., 75a. Halcrow, H. G., 18a. Haldeman, W. L., 110a. Hale, E. B. (Pa.), 111b. Hale, E. B. (Tenn.), 120b. Hale, F., 123b. Hale, H. H., 17a. Hale, N. S., 56a. Hale, W. H., 31b. Haley, S. A., 8a. Hall, C. B., 22a. Hall, C. E., 73a. Hall, C. N., 109a. Hall, C. R., 83b. Hall, C. W. (Del.), 20a. Hall, C. W. (S. C.), 116b. Hall, D. H., 78a. Hall, D. M., 32b. Hall, E. E., 117b. Hall, E. R., 134b. Hall, F. A., 38a. Hall, Mrs. F. A., 88b. Hall, G. O., 88b. Hall, H. G., 38b. Hall, H. J., 71b. Hall, H. W., 52b. Hall, I. F., 140b. Hall, J. L., (Kans.), 43b. Hall, J. L. (N. C.), 90a. Hall, J. O., 54b. Hall, L. F., 44a. Hall, M. E., 3a.. Hall, Mrs. M. H., 77b. Hall, N. S., 90a. Hall, O. F., 65b. Hall, R. A., 126b. Hall, R. B., 133a. Hall, W. C., 125b. Hall, W. E., 108a. Hall, W. F., 109b. Haller, W., 57a. Halliday, W., 62b. Hallmark, R. B., 18a. Halls, L. K., 27b. Halma, F. F., 14a. Halpin, J. G., 142b. Halpin, R. B., 124a. Halsey, L. H., 22a. Haltom, T. H., 124a. Halverson, A. W., 118a. Halvorson, A. R., 107b.

Halvorson, H. W., 140b. Ham, C., 118b. Ham, W. E., 134b. Hamblin, A. P., 139a. Hamiel, G. R., 83a. Hamill, J. P., 100b. Hamilton, A. B., 54b. Hamilton, Mrs. C. B., 139a. Hamilton, C. C., 81a. Hamilton, C. H., 93a. Hamilton, C. M., 137b. Hamilton, D., 122a. Hamilton, F. B., 77a. Hamilton, H. G., 21b. Hamilton, J. M., 89b. Hamilton, J. R. (Ga.), 27a. Hamilton, J. R. (Miss.), 69a. Hamilton, J. W. (Okla.), 103b. Hamilton, J. W. (Wyo.), Hamilton, L. C., 115b. Hamilton, M., 103a. Hamilton, R. A., 28b. Hamilton, R. D., 126a. Hamilton, T. S. (Ill.), 31b. Hamilton, T. S. (Mass.), 58a. Hamilton, W. J., Jr., 85b. Hamlin, C. E., 36a. Hamlin, G., 41a. Hamlin, H. M., 32a. Hamlin, R. A., 37a. Hamman, A. J., 16a. Hammans, C. W., 97a. Hammers, L. A., 107a. Hammes, R. C., 133b. Hammill, B., 61b. Hammond, D. M., 129b. Hammond, H. P., IV. Hammond, L. C., 22b. Hammond, W. E., 76b. Hammonds, L. L., 6a. Hammons, J. G., 115a. Hammons, R. O., 90a. Hamner, A. L., 70a. Hamner, C. L., 62a. Hamner, K. C., 13b. Hampson, C. M., 21a, b. Hampton, H. E., 123a. Hamstead, E. O., 139b. Hanchey, R. H., 51a. Hancock, B. G., 125b. Hancock, C., 6b. Hancock, C. K., 124a. Hancock, N. I., 120a. Hand, D. B., 89a. Haney, W. J., 62a. Hankinson, D. J., 56b. Hanks, E. K., 86b. Hanna, F. J., 45b. Hanna, G. C., 13a. Hanna, J. B., 44b. Hanna, R. L., 124b. Hanna, W. J., 82b. Hannah, H. W., 31b.

Hannah, J. A., III, IV, 59a. Hanning, F. M., 141b. Hansard, S. L., 119b, 122b. Hansbrough, T., 51b. Hansel, W., 84b. Hansen, A. M., 141a. Hansen, C. J., 12b. Hansen, C. M., 60b. Hansen, E., 107a. Hansen, H. C., 29b. Hansen, H. L., 65b. Hansen, H. M., 18a. Hansen, H. N., 10a. Hansen, J. M., 79a. Hansen, K. W., 66a. Hansen, M. F., 46a. Hansen, R. G., 31b. Hansen, R. S., 137a. Hansen, V., 129a. Hansen, W. W., 101b. Hansens, E. J., 81a. Hansing, E. D., 43b. Hansing, F. D., 132a. Hansmeier, M. P., 74a. Hanson, A. M., 41b. Hanson, C. H., 90a. Hanson, E., 83b. Hanson, H. P., 65a. Hanson, J. F., 57b. Hanson, L. E., 64a. Hanson, Mrs. M. B., 10a. Hanson, R. P., 142b. Hanson, S. O., 53b. Hanson, W. D., 21a. Hanway, D. G., 76a. Haramoto, F. H., 28a. Harbage, R. P., 36a. Harbison, J. L., 120b. Harbor, D. R., 1a. Hard, M. M., 136a. Harden, L. H., 89b. Hardenburg, E. V., 89a. Harder, R. W., 29a. Hardin, C. M., V, 59a. Hardin, L. J., 120a. Hardin, L. S., 35b. Harding, R. B., 14b. Hardison, J. R., 105a. Hardy, C., 129a. Hardy, D. E., 28a, 29b. Hardy, H. C., 122a. Hardy, O. B., 105b. Hardy, W. T., 127a. Hare, J. H., 138a. Hare, Q. A., 127b. Hare, W. W., 68b. Harger, V. F., 97b. Hargreaves, C. A., 19a. Hargreaves, L. A., Jr., 25a. Hargrove, B. D., 126b. Harkema, R., 91a. Harkness, L. L., 65b. Harkness, R. W., 23b. Harlan, J. D., 89b. Harland, F. G., 5a.

Harman, M. T., 46a. Harmer, P. M., 63a. Harmon, A. B., 121a. Harmon, S. A., 27b. Harmon, T. D., 97a. Harmond, E. A., 27a. Harmond, J. E., 105b. Harms, W. S., 26b. Harned, H. H., 68a. Harned, J. H., 47b. Harney, A. R., 30b. Harper, C., 34b. Harper, H., 43a. Harper, H. J., 101a. Harper, J. A., 107b. Harper, L., 132b. Harper, R. E., 84a. Harper, W. J., 97a. Harradine, F. F., 10b. Harrell, D. C., 117b. Harrell, F. M., 117b. Harrelson, J. W., 90a. Harrill, I. M., 72b. Harrill, L. R., 92b. Harrington, A. H., 135a. Harrington, C. R., 86b. Harrington, F. M., 75a. Harrington, H. D., 15a. Harrington, J. F., 13a. Harrington, M. T., IV, 123a. Harrington, W. C., 57a. Harris, A. J., 132a. Harris, C. E., 47a. Harris, D., 20a. Harris, D. V., 15b. Harris, E. E., 136a. Harris, E. M., 4a. Harris, F. B., 93b. Harris, H., 2b. Harris, H. C., 21a. Harris, H. E., 52b. Harris, H. M., 42b. Harris, J., 93a. Harris, J. N., 125a. Harris, J. O., 43b. Harris, J. T., 26b. Harris, J. W., III, IV, VII, VIII, 119a, 121a. Harris, K., 4a. Harris, K. A., 23a. Harris, K. W., 88a. Harris, L., 78b. Harris, L. E., 128a. Harris, M., 77b. Harris, M. B., 60b. Harris, M. F., 125a. Harris, M. R., 136b. Harris, R. D., 9b. Harris, R. H., 96a. Harris, R. R., 25a. Harris, R. S., 67a. Harris, R. W., 12b. Harris, V. C., 68b. Harris, W. K., 58b. Harris, W. L., 29b.

Harrison, A. L., 127b. Harrison, B. W., 72a. Harrison, C. N., 61a. Harrison, D. L., 45a. Harrison, E. A., 133b. Harrison, G. J., 10b. Harrison, G. L., 104a. Harrison, Mrs. G. L., 128b. Harrison, J. S., 46a. Harrison, Mrs. M., 25a. Harrison, P. K., 51b. Harrison, T. B., 120a. Harrison, W. S., 59b. Harshbarger, B., 133b. Harshbarger, K. E., 31b. Harshfield, G. S., 119b. Harshfield, H. W., 97b. Hart, D. A., 24a. Hart, G. H., VIII, 8a, 13a. Hart, H., 66b. Hart, K. M., 61a. Hart, P. J., 129b. Hart, V. B., 85b. Harter, E. L., 124a. Hartley, A., 43a. Hartley, C. H., 138a. Hartley, M., 78b. Hartman, F. O., 98a, 100b. Hartman, F. W., 28a. Hartman, G. B., 40b. Hartman, G. P., 74a. Hartman, H., 107a. Hartman, J. D., 89a. Hartmann, H. T., 12b. Hartsell, S. E., 34b. Hartsock, J. G., 86a. Hartt, S. M., 37a. Hartwig, H. B., 84a. Hartwig, N. A., 118b. Hartwig, R. T., 60a. Hartzog, D. H., 135b. Harvey, A. L., 64a. Harvey, C., 123a. Harvey, E. W., 106a. Harvey, J. K., 119b. Harvey, P. H., 90a. Harvey, W. A., 12a. Harvey, W. R., 29b. Harwood, W. T., 80b. Hasek, R., 100b. Haseman, L., 71b. Hash, T. R., 138a. Haskin, H. H., 82a. Haskins, A. L., 109a. Haslerud, E. J., 94a, 95a. Hassid, W. Z., 10a. Hassler, F. J., 92a. Hastings, E. B., 75b. Hastings, L. B., 103a. Hatch, H., 85a. Hatch, W. R., 134b. Hatcher, H. M., 110b. Hatfield, M. R., 59a. Hatfield, S., 125a. Hathaway, D. E., 60a.

Hathaway, H. E., 51b. Hathaway, I. L., 76b. Hathorn, S., Jr., 5a. Hatton, C. A., 16b. Haub, J. G., 98b. Hauck, A. A., III, IV, 52a. Hauck, H. M., 87b. Hauck, J. F., 81a. Hauer, N., 50a. Hauge, S. M., 35a. Haugen, A. O., 3b. Hauke, H. A., 77a. Haupt, A. W., 13b. Haus, T. E., 14b. Hauser, E. R., 140a. Hausman, L. A., 82b. Haut, I. C., 54a. Havens, A. V., 82a. Haver, C. B., 95a. Haviland, E. E., 55a. Havis, J. R., 133a. Hawes, J. E., 55b. Hawes, R. C., 54b. Hawk, V., 38a. Hawkes, G. R., 41a. Hawkins, A., 18b. Hawkins, B. S., 26a. Hawkins, H. L., 121b. Hawkins, J. H., 53a. Hawkins, L., 27a. Hawkins, L. E., V, 101a. Hawkins, M. E., 95b. Hawkins, P. A., 63a. Hawkins, R. H., 115a. Hawkins, R. S., 4a. Hawks, S. N., 90a. Hawley, R. D., 56a. Hawthorn, L. R., 129b. Hawthorne, B., 106b. Hawthorne, P. L., 51a. Hay, R. C., 32b. Haydak, M. H., 65b. Hayden, P. W., 78a. Haydu, E., 106a. Hayes, D. L., 86b. Hayes, H. K., 64a. Hayes, J. B., 142b. Hayes, R. W., 50b. Hayne, D. W., 64a. Haynes, B. C., Jr., 81a. Haynes, J. L., 99a. Haynie, J. D., 21b. Hays, F. A., 58b. Hays, J. G., 59b. Hays, O. E., 143b. Hays, R. L., 31b. Hays, R. M., 48b. Hayslip, N. C., 23a. Hazaleus, M. H., 15a. Hazard, Mrs. A. W., 142a. Hazel, L. N., 39a. Hazen, A. G., 96b. Hazen, L. W., 102b. Hazen, M. W., 126b. Hazen, T. E., 7a.

Hazlet, S. E., VII, 135a. Hazlewood, B. P., 122b. Head, T. P., 6a. Heady, E. O., 39b. Heady, H. F., 125b. Heagy, A. B., 55b. Hean, C. S., 143a. Heard, M. G., 121b. Hearn, M., 124b. Hearn, Mrs. M. C., 61b. Hearne, C. C., IV. Heath, H. E., 41b. Heath, J. L., Jr., 52a. Heath, V. E., 6b. Heathman, J. E., 32a. Heaton, C. D., 143b. Hebert, T. T., 91a. Hecht, A., 134b. Heck, M. C., 6a. Heckard, H. S., 36b. Hedger, H. R., 104a. Hedges, C. C., 124a. Hedges, T. R., 11b. Hedlund, G. W., 85b. Heebink, G., 138a. Heermann, R. M., 95b. Heggeness, H. G., 66b. Heggestad, H. E., 122a. Hegwood, L., 68b. Hehn, E. R., 74a. Heidebrecht, A. A., 101b. Heideman, K. K., 62b. Heilig, H., 15b. Heiligman, F., 6b. Heim, R. W., 20a. Heine, A. C., 67b. Heineman, D. F., 12a. Heinemann, W. W., 134b. Heiner, Mrs. M. K., 86a. Heinicke, A. J., 88b, 89a, b. Heinzelman, F. E., 86b. Heishman, J. O., 139b. Heiss, A. M., 61b. Heit, C. E., 90a. Heitman, H., Jr., 11a. Heizer, E. E., 140a. Heizer, H. K., 99a. Heizer, P., 29b. Helfinstine, R. D., 95a. Helgeson, E. A., 95b. Heller, V. G., 102a. Helm, C. A., 72a. Helm, R., 77a. Helmboldt, C. E., 17a. Helms, C. C., 21a. Helms, F., 1b. Helms, J. O., Jr., 2a. Helms, J. W., 69b. Helrich, K., 80a. Helton, S. E., 48a. Helwig, J. H., 98b, 100b. Helyar, F. G., 80a. Hembre, I. O., 141a. Hembree, J. B., 92a. Hemingway, A., 67a,

Hemphill, D. D., 72b. Hemphill, P. V., 95a. Hench, K. W., 84a. Henderson, B. W., Jr., 114a. Henderson, C. O., IV. Henderson, C. R., 84b. Henderson, D. C., 131b. Henderson, D. W., 12a. Henderson, E. W., 62b. Henderson, F. S., 110b. Henderson, G. E., 25a. Henderson, G. M., 110b. Henderson, G. R., 128a. Henderson, H. B., 24a. Henderson, H. O., 138a. Henderson, J. R., 21a, 22b. Henderson, M., 33b. Henderson, M. T., 49a. Henderson, P. A., 76b. Henderson, R. G., 133a. Henderson, S. M., 11b. Henderson, R. W., 106a. Henderson, W., 38a. Henderson, W. J., 15a. Hendley, E. C., 68b. Hendricks, Mrs. J. B., 16b. Hendricks, J. W., 93b. Hendricks, K., 130b. Hendrickson, A. H., 12b. Hendrickson, F. A., 140b. Hendrickson, G. O., 42b. Hendrickson, K. N., 57a. Hendrickson, R., 22b. Hendrix, C. B., 120b. Hendrix, J. A., 52a. Hendrix, J. W., 28b. Hendrix, W. E., 26b. Hening, J. C., 89a. Henke, L. A., 28a. Henkel, J. W., 37a. Henley, H. A., 73a. Henneberry, G., 18b. Henney, H. J., IV, V, 14a. Henning, A., 47b. Henning, G. F., 97a, 100a. Henning, W. L., 108b. Henrickson, R. L., 138a. Henry, Mrs. A. H., 47a. Henry, E., 103a. Henry, E. F., 131a. Henry, G. F. (Colo.), 15b. Henry, G. F. (Ga.), 24a. Henry, J. F., Jr., 67a. Henry, J. L., 78a. Henry, V., 72a. Henry, W. F., 18a. Henson, L., 46a. Henze, R. E., 35a. Hepburn, R. G., VI, 17a, 18a. Hepler, J. R., 80b. Hepple, L. M., 73a. Hepworth, M. M., 30a. Herbert, P. A., 59a, b. Herbison, H. W., 95a. Heriot, L., 116a.

Herman, H. A., 71a. Hermanson, E., 66a. Hernández, Mrs. A., 113a. Hernández, Elías, 112a. Hernández, Ernesto, 113a. Hernández, L., 113a. Hernández, T. P., 51a. Hernández-Fragoso, J., 112a. Hernández-Mora, J., 112a. Herndon, T. G., 22a. Herreid, E. O., 32b. Herrell, C. D., 83b. Herrick, A. M., 36b. Herrick, C. A., 142b. Herrick, E. H., 46a. Herrick, J. B., 39a, 42a. Herrick, L. W., 93a. Herring, G. C., 131a. Herring, J. W., 129b. Herrington, B. L., 85b. Herrling, E. H., 142a. Herron, J., 102b. Hershey, R. R., 61b. Hertel, J. P., 89b. Hertel, K. L., 120b. Hervey, D. F., 16a. Hervey, G. E. R., 89a. Hervey, M. C., 64b. Hervey, R. J., 127b. Herzer, F. H., 68b. Hesler, L. R., VI. Hess, C. V., 109b. Hess, W. R., 67a. Hesse, C. O., 12b. Hesseltine, W. R., 18a. Hesson, H. A., 99a. Hester, A., 69a. Hester, W., 120a. Hetrick, L. A., 21b. Hettler, F. M., 41a. Heuberger, J. W., 20b. Heukelekian, H., 82b. Heuser, G. F., 88b. Hewetson, F. N., 111a. Hewitt, E. A., 42a. Hewitt, O. H., 85b. Hewitt, W. B., 12b. Hewlett, Mrs. H. F., 104a. Heye, H., 97b. 100a. Heyne, E. G., 43a. Hiatt, R. W., 29b. Hibbard, A. D., 72b. Hibbs, E. T., 100a. Hibbs, J. W., 99a, b. Hickerson, R. B., 125b. Hickey, J. C., 52a. Hickey, J. J., 143a. Hickman, C. W., 29a. Hickok, R. B., 36a. Hicks, J. S., 16b. Hicks, J. W., 35b. Hicks, M. F., 135b. Hicks, M. I., 25b. Hickson, J. L., 35a. Hickson, W. F., 117a.

Hicock, H. W., 19b. Hide, J. C., 74a. Hieronymus, A. C., 28b. Hieronymus, T. A., 31b. Hieser, L., 33a. Hiestand, W. A., 34b. Higbee, H. W., 108a. Higbee, V. B., 114b. Higdon, R. J., 116b. Higginbotham, L., 25b. Higgins, B., 57b. Higgins, B. B., 26a. Higgins, F., 4a. Higgins, L. A., 68b. Higgins, L. J., 79a. Higgins, N. R., 66a. Higgins, R. A., 60a. Higgins, T. C., 114b. Higgs, C., 126a. High, C. A., 97a. Highlands, M. E., 53a. Higinbotham, N., 134b. Hilbert, L., 110b. Hilborn, M. T., 53b. Hildebrand, S. C., 61a. Hildebrandt, A. C., 142b. Hildwein, H. L., 83b. Hilgeman, R. H., 5b. Hilgendorf, R. D., 45b. Hill, A., 27a. Hill, C. H., 131b. Hill, C. L., 49b. Hill, C. M., 122a. Hill, C. R., 144b. Hill, C. W., 139a. Hill, D. D., 106a. Hill, D. L., 35b. Hill, E. B. (Mich.), 60a. Hill, E. B. (Wis.), 141a. Hill, F. F., 85b. Hill, F. W., 88b. Hill, G. W., 142b. Hill, H. H., 131b. Hill, H. O., 126b. Hill, J. E., 70a. Hill, J. L. (Mich.), 59b. Hill, J. L. (S. D.), 118b. Hill, Mrs. J. L., 141b. Hill, K. A., 124b. Hill, R. C. (Kans.), 44a. Hill, R. C. (Ky.), 49a. Hill, R. E., 77a. Hill, R. G., 59b. Hill, R. G., Jr., 98a, 100b. Hill, R. L., 128b. Hillhouse, M. S., 61b. Hillier, J. C., 101b. Hills, W. A., 23a. Hilst, A. R., 34a. Hilston, N. W., 143b. Hilthold, A. E., 84a. Hilton, J. H., 90a. Hilton, W. B., 50a. Hilyard, L. V., 74b. Hinchcliff, K. H., 32b.

Hinds, H. B., 5b. Hinds, M. K., 65a. Hinds, R. H., 55b. Hines, C., 69b. Hines, M. P., 26b. Hines, T. I., 92a. Hinkle, D. A., 6a. Hinnant, F. K., 116b. Hinrichs, H. A., 103b. Hinton, R. A., 31b. Hinton, S. A., 120a. Hintz, C. W. E., 55b. Hippaka, T. A., 40a. Hitchcock, D. J., 63a. Hitchcock, J. D., 144a. Hitchcock, M. J., 53b. Hitchcock, Mrs. V. J., 144a. Hitchner, E. R., 52b. Hitchner, S. B., 58b. Hite. P. P., 119b. Hites, B. D., 76b. Hitt, H. L., 51b. Hitt, R. G., 141b. Hitz, C. W., 20b. Hivon, K. J., 33a. Hixon, R. M., VII. Hixson, E., 75a, 77a. Hjort, A. L., 44b. Ho, F. P., 28b. Hoar, S., 57a. Hobart, I. M., 66a. Hobbs, C. S., 119b. Hobbs, J. A., 43a. Hobgood, P., 124b. Hobson, A., 140b. Hobson, Mrs. A. K., 4b. Hobson, K., 135a. Hoch, E. H., 140a. Hochmuth, R. H., 128b. Hockema, F. C., 34a. Hockman, N. J., 99b. Hodgdon, A. R., 79a. Hodge, F., 124b. Hodge, T. L., 60a. Hodge, W. H., 56a. Hodgell, M. R., 32b. Hodges, E. M., 23b. Hodges, J. A., 44a. Hodges, L. H., 141a. Hodges, S. J., Jr., 94a. Hodgkins, A. M., 6b. Hodgkins, E. J., 59b. Hodgson, C. W., 29a. Hodgson, H. J., 4b. Hodgson, J. G., 17b. Hodgson, J. M., 29a. Hodgson, M. G., 118b. Hodgson, P. M., 20a. Hodgson, R., 33a. Hodgson, R. E., 67b. Hodgson, R. W., 8a. Hodson, A. C., 65b. Hoecker, H., 54b. Hoefer, A., 86b.

VI.

Hoefer, Mrs. H. P., 87b. Hoefer, J. A., 59a. Hoeflin, R., 97b, 100a. Hoerlein, A. B., 42b. Hoerlein, B. F., 3a. Hoerner, G. R., 105a. Hoerner, J. L., 16a. Hoesly, O. M., 141b. Hofer, A. W., 89a. Hoff, G., 83a. Hoff, P. R., 86a. Hoffer, C. R., 62b. Hoffer, J., 103a. Hoffman, A., 76b. Hoffman, A. M., 18b. Hoffman, E. N., 107b. Hoffman, G. M., 141b. Hoffman, I. C., 100b. Hoffman, J. R., 60b. Hoffman, L. E., IV, 34a, 36a. Hoffman, M. B., 88b. Hoffmann, E., 26a. Hoffmeister, H. J., 55a. Hofford, H. M., 114a. Hofmaster, R. N., 133a. Hofmaster, Mrs. R. N., 133b. Hofstad, M. S., 42b. Hogaboam, G. J., 61a. Hogan, A. G., 71a. Hogan, W. D., 23a. Hogg, P. G., 70b. Hoglund, C. R., 60a. Hogue, L., 54a. Hogue, R. L., 37b. Hoitt, S. W., 80a. Hokanson, J. F., 3a. Holaday, L., 40a. Holben, F. J., 108a. Holberg, M., 16b. Holcombe, Mrs. I. E., 139a. Holdaway, C. W., 131b. Holden, E. D., 140a. Holderman, K. L., VII. Holdsworth, R. P., 57b. Hole, F. D., 142b. Holekamp, E. R., 5a. Holiday, O. R., 8b. Holje, H. C., 74b. Holker, T. B., 74b. Holland, B. K., 133b. Holland, L. C., 54b. Holland, R. F., 85b. Holland, T. H., 104a. Hollands, H. F., 105b. Hollandsworth, H. L., 106b. Holleman, M. P., 125a. Hollen, D. E., 138b. Hollen, N. R., 41a. Hollender, H. A., 35b. Holler, D. F., 92b. Holley, A. D., 89a. Holley, A. L., 6a. Holley, J. M., 133b. Holley, K. T., 26b. Holley, R. W., 89a.

Holley, W. D., 16b. Hollinger, M. E., 49b, 51a. Hollingsworth, G. S., 119a. Hollingsworth, J. P., 124b. Hollins, Mrs. I. L., 4b. Hollis, J. P., 71a. Hollist, L. O., 4a. Holloway, E. C., 22a. Holloway, J. K., 8a. Holloway, M. G., 20b. Holm, E. A., 36b. Holm, G. C., VIII, 94b. Holm, L. G., 142a. Holm, L. W., 13a. Holman, R. T., 123b. Holmblade, A. J., 60a. Holmes, A. D., 56b. Holmes, C. E., 133b. Holmes, D. E., 120a. Holmes, E. S., 47b. Holmes, F. S., 54a. Holmes, G. E., 40a. Holmes, J. C., 79b. Holmes, N. D., 6b. Holmes, W. H. 52a. Holmgren, A. H., 128a. Holowaychuk, N., 96a, 99a. Holsoe, T., 138b. Holstein, Mrs. D. F., 77b. Holstein, H. D., 116a. Holstun, J. T., 70b. Holt, D. H., 141a. Holt, E., 123a. Holt, G., 74b. Holt, J. M., 119a. Holt, O. M., 124a. Holter, J. A., 54b. Holtman, D. F., 120a. Holton, C. S., 136b. Holton, H. N., 132a. Holtzberg, I. H., 22b. Holzman, H., 118a. Holzmann, W. H., 123a. Homeyer, P. G., 42a. Honess, R. F., 144a. Honey, E. A., 109a. Honey, R. R., 110b. Honeywell, E. R., 37b. Honstead, W. H., 43b. Hoobler, S. Q., 135a. Hood, J. D., 86b. Hood, J. T., 1a. Hood, K., 109b. Hood, Mrs. M. P., 25b. Hood, S. L., 122b. Hooker, E. W., 126a. Hooker, W. J., 39a. Hoos, S. S., 8b. Hootman, H. D., 62a. Hoover, C. D., 68a. Hoover, L. M., 44a. Hoover, M., 12a. Hoover, M. M., 38a. Hoover, N. K., 110a. Hope, E. B., 135a.

Hope, J. H., 52a. Hopkin, J. A., 143a. Hopkins, A. W., 142a. Hopkins, F. S., Jr., 130b. Hopkins, R. B., 53a. Hopkins, S. H., 123b. Hopkins, W. C., 69b. Hopp, R. J., 131b. Hopper, R. C., 47a. Hopson, Mrs. A. K., 47a. Hopwood, M. L., 15b. Horlacher, L. J., VI, 46a, 47a. Horlacher, W. R., 14a, 17b. Horn, A. S., 30b. Horn, L. H., 68a. Horn, M. E., 110b. Hornbeck, B. L., 48b. Horne, T. J., 132a. Horner, E. S., 21a. Horner, G. M., 134a, 137b. Horning, E., 29a. Horning, T., 108a. Horrell, E. C., 105b. Horsfall, F., 129b, 133a. Horsfall, J. G., 19a. Horsley, E., 16b. Hortin, R., 72a. Horton, G., 121a. Horton, K. H., 133b. Horton, L. M., 95b. Horton, M. K., 110b. Horton, O. H., 6a. Horwood, R. E., 60b, 64b. Hosaka, E. Y., 28a. Hoshaw, R. W., 5a. Hoskins, E. R., 86a. Hoskins, W. M., 9a. Hoss, R. M., 44a. Hossfeld, R. L., 65b. Hostetler, E. H., 91a. Hostetler, I., 92a. Hostetter, S. K., 108a. Hougas, R. W., 141b. Hough, H. W., 63a. Hough, J. H., 50b. Hough, L. F., 81b. Hough, W. S., 131b. Houghaboom, V. R., 130b. House, W. B., 71a. Houston, B. R., 12b. Houston, C., 78b. Houston, E. R., 103b. Houston, F. G., 46a. Houston, Mrs. H., 55a. Houston, J. W., 119b. Houze, R. A., 126a. Hovde, F. L., III, IV, 34a. Hove, E. L., 1a. Howard, C. G., 83b. Howard, F. A., 138a. Howard, F. L., 114b. Howard, L. B., 32b. Howard, N. J., 48b.

Howard, R. C., 133b.

Howard, W. E., 13b. Howarth, J. A., 13a. Howe, A. F., 79a. Howe, A. L., 37a. Howe, G. H., 89b. Howe, H., VII, 44a. Howe, O. W., 78b. Howell, C. E., 11a. Howell, D. E., 102b. Howell, E. I., 69b. Howell, E. L., 92a. Howell, H. A., 7b. Howell, H. B. (Iowa), 39b. Howell, H. B. (Oreg.), 107b. Howell, H. W., 73b. Howell, J. C., 122b. Howell, M., 54b. Howell, M. J., 94a. Howell, R. E., 62b. Howell, R. S., VII. Howell, W. C., 69a. Howell, W. D., 69a. Howes, C. E., 53b. Howland, A., 60a. Howlett, F. S., 98a, 100b. Howson, E., 136a. Hoxsie, C. E., 37b. Hoy, P., 19a. Hoyle, B. J., 12a. Hoyman, W. G., 96a. Hoyt, E. E., 39b, 41a. Hoyt, H. H., 67a. Hozen, M. W., 123b. Hubbard, J. L., 127b. Hubbard, S. C., 58a. Hubbell, B. E., Jr., 11b. Hubbell, D. S., 84b. Hubbell, R. B., 19a. Hubbert, F. E., 108b. Huber, H. F., 82b. Huber, L. L., 108a. Huber, M. G., 105b. Huber, S. G., 97a. Huber, T., 129a. Huberty, M. R., 13b. Hucker, G. J., 89a. Huckett, H. C., 86b. Huddleson, I. F., 63a. Hudelson, R. R., VI, 30a, 31b. Hudson, Mrs. A. B., 69a. Hudson, B. L., 103a. Hudson, C. B., 82a. Hudson, G. E., 135b. Hudson, G. T., VI, 6a. Hudson, J. F., 50a. Hudson, N. P., VII. Hudson, R. K., 59b. Hudson, R. S., 59a. Hudson, W. E., 25a. Hudspeth, E. B., Jr., 127a. Huelsen, W. A., 33b. Huenemann, R. L., 121b. Huey, E. E., 135a. Huey, I. B., 131b. Huff, J. S., 124a.

Huff, K. B., 71b. Huffaker, C. B., 8a. Huffine, W. W., 101a. Huffman, C. F., 60a. Huffman, J. B., 138b. Huffman, R. E., 74b. Hughes, C. E., 141a. Hughes, E. H., 11a. Hughes, H. D., 38a. Hughes, H. L., 132b. Hughes, J. S., 43b. Hughes, K. M., 8a. Hughes, M. B., 117a. Hughes, M. E., 136a. Hughes, R. B., 120b. Hughes, R. J., Jr., 69b. Hughes, W. F., 124a. Hughs, T., 83b. Huiet, G. E., Jr., 116b. Huizinga, H., 144b. Hukill, W. V., 40a. Hulbert, J. A., 133b. Hulette, N., 48b. Hull, D. O., 40a. Hull, F. E., VIII, 47a. Hull, F. H., 21a. Hull, H. H., 142b. Hull, R. B., 37b. Hulsey, M., 2b. Hultz, F. S., 94a. Humbert, E. P., 125a. Hume, A. N., 117b. Hume, E. P., 131b. Hummel, B. L., 132a. Hummel, M. E., 16b. Hummon, G. A., 99a. Humphrey, G. D., III, IV. 143a. Humphrey, M. L., 88b. Humphrey, M. W., 110a. Humphrey, J. E., 47a. Humphrey, R. R., 5a. Humphrey, S. S., 96b. Humphreys, G., 138a. Humphreyville, T. R., 89b. Humphries, W. S., 92a. Hundley, J. C., 120b. Hungate, R. E., 134b. Hungerford, C. W., 30b. Hunsaker, L. R., 128b. Hunsinger, E. J., 133b. Hunt, C. G., 101a. Hunt, C. H., 99a. Hunt, C. R., 75b. Hunt, E. V., Jr., 8b. Hunt, G. E., 85a. Hunt, H., 36b. Hunt, H. R., 64a. Hunt, R. A., 46a. Hunt, R. E., 131a. Hunt, R. L., 124a. Hunt, V. M., 141b. Hunter, A. S., 107b. Hunter, E. C., 15b. Hunter, F. M., 69a.

Hunter, G. W., 56a. Hunter, H. K., 72b. Hunter, H. L., 115a. Hunter, Mrs. M. B., 106b. Hunter, Mrs. M. E. V., 133a. Hunter, R. A., 104b. Hunter, S. M., 72a. Huntington, G. L., 10b. Hurd, E. B., 135a. Hurd, L. M., 88b. Hurd, T. N., 85b. Hurlburt, V. L., 39b. Hurlbut, L. W., 77a. Hurley, C. A., 41b. Hurley, W. C., 122a. Hurse, A., 27a. Hurst, F. M. (Ind.), 34b. Hurst, F. M. (W. Va.), 138b. Hurst, R. E., 122a. Hurst, R. L., 73b. Hurst, V., 115b. Hurt, B. C., 70b. Hurt, M. L., 60a. Hurt, R. H., 133a. Hussemann, D. L., 141b. Hussmann, E. H., 5b. Huston, H. E., 77b. Huston, J., 72b. Huston, T. M., 26a. Huston, V. G., 44b. Hustrulid, A., 65a. Hutcheson, J. R., 131a. Hutcheson, R., 37a. Hutchings, L. M., 37b. Hutchins, A. E., 66a. Hutchins, M., 87b. Hutchins, R. E., 70a. Hutchinson, J. D., Jr., 132b. Hutchinson, K. T., IV. Hutchinson, R. M. T., 81b. Hutchinson, S. A., 88a. Hutchison, C. B., IV, 8a. Hutchison, C. S., V, VI, 96a. Hutchison, J. E., 125b. Hutson, D., 7a. Hutson, H. C., 127a. Hutson, R., 60b. Hutt, F. B., 88b. Hutto, D., 143b. Hutto, E. E., 3b. Hutton, B., 106a. Hutton, C. A., 120a. Hutton, C. E., 23b. Hutton, R. E., 75b. Huyke, R., 111a, 112b. Hyatt, G., Jr., 138a. Hyatt, Mrs. M., 47b. Hyder, D. N., 108b. Hyer, E. A., 105b. Hyer, R. J., 144b. Hyland, F., 53a. Hyman, T. M., 132a. Hyre, H. M., 138a.

Hyre, R. A., 20b.

I Ibsen, H. L., 43a. Igaravídez, L., 113a. Ikenberry, G. J., 101b. Imhof, A. H., 109b. Imlay, F., 48a. Ingalls, R. L., 61b. Ingalls, W. L., 98b, 100b. Ingham, V. W., 82b. Inglis, H. A., 24a. Ingram, C., 51b. Ingram, G. R., 3a. Ingram, R. H., 108b. Ingram, W. P., Jr., 91b. Ingram, W. T., IV, 3b. Inman, F., 79a. Insko, W. M., Jr., 46b. Ireland, J. C., 101a. Irion, C. G., 34a, 36b. Irizarry, Mrs. J. Y., 112b. Irvine, D. M., 140b. Irvine, E., 97b. Irving, T. A., 1b. Irwin, D. L., 4a. Irwin, K. G., 15b. Irwin, M. R., 141b. Isaac, E. E., 75a. Isaacs, G. W., 36a. Isbell, C. L., 2b. Isbit, A. L., 62a. Isely, D. (Ark.), 7a. Isely, D. (Iowa), 39a. Isenberg, J. L., 98b. Ishida, J. T., 28a. Israelsen, V. L., 128b. Israelson, O. W., 129a. Itschner, E. T., 71a. Ittner, N. R., 12a. Ivanoff, S. S., 68a. Iverson, C. A., 39b. Iverson, C. L., 118a. Iverson, V. E., 75a. Ives, J. M., 102b. Ivey, W. D., 3b. Ivy, E. E., 124b. Ivy, H. W., Jr., 49a. Iwanaga, I. I., 28a.

J
Jaap, R. G., 98b, 100b.
Jaccard, C. R., 44a.
Jack, C., 79a.
Jack, E. L., 11a.
Jackman, E. R., 106a.
Jackson, Mrs. A. R., 16b.
Jackson, B. R., 101a.
Jackson, F. C., 126b.
Jackson, H. (Ark.), 6b.
Jackson, H. (La.), 52a.
Jackson, H. C., 140b.
Jackson, H. W., 131b.
Jackson, J. A., 70a.

Iwig, D. J., 33a.

Jackson, J. M., 6a. Jackson. L. C., 76b. Jackson, L. E. (Mich.), 61b. Jackson, L. E. (Pa.) IV, 108a. Jackson, L. W. R., 25a. Jackson, M. E., 45b. Jackson, M. L., 142b. Jackson, P., 61b. Jackson, R. L., 115a. Jackson, R. S., 17a. Jackson, T. L., 134a. Jackson, W., 23b. Jackson, W. E., Jr., 48a. Jackson, W. F., 26b. Jacob, A. W., 102a. Jacob, W. C., 89a. Jacobs, D. L., 24a. Jacobs, R. E., 17a. Jacobson, H. G. M., 19b. Jacobson, L., 10a. Jacobson, N. L., 39a. Jacocks, M., 121a. Jacquot, H. D., 134a. Jaggi, F. P., Jr., 126a. James, C. M., 34b. James, E. D., 27b. James, H. B., 91b. James, Mrs. J., 106b. James, J. A., 141a. James, M. F., 31b. James, M. T., 135b. James, R., 140a. James, W. H., 49b. Jameson, E. W., Jr., 13b. Jamison, F. S., 22a. Jamison, R. A., 132b. Jamison, V. C., 2a. Jané, A. E., 58a. Janes, A. W., 32a. Janes, B. E., 18b. Janes, R. L., 60b. Janike, E. W., 77a. Jans, F. C., VI. Janson, B., 96b. Janssen, N. R., 35b. Janssen, Mrs. P. E., 33a. Jaques, D. S., 121b. Jarnagin, M. P., 24a. Jarnagin, R. A., 32a. Jarvis, R. N., 91a. Jaska, R. C., 124b. Jason, W. B., 73a. Jasper, D. E., 13a. Jatras, S. J., 57a. Jaynes, M. C., 124a. Jeary, K. M., 66a. Jebe, E. H., 42a. Jefferies, J. W., 94a. Jeffers, R. L., 96a. Jeffers, W. F., 54a. Jefferson, Mrs. R. B., 139b. Jefferson, R. N., 13b. Jeffries, C. D., 108a. Jeffries, W. S., 110a.

Jeffrey, A. A., 71b. Jeffrey, F. P., 58b. Jeffrey, L. G., 103a. Jehle, R. A., 54a. Jehlik, P. J., 39b. Jenkins, A. L., 71b. Jenkins, E. C., 55b. Jenkins, J. A., 9b. Jenkins, J. G., 27a. Jenkins, J. H., 25a. Jenkins, J. M., Jr., 93b. Jenkins, R. R., 72a. Jenkins, W. A., 133a. Jenkins, W. H., 117b. Jenkins, W. R., 129b. Jenness, R., 64b. Jennings, B. A., 86a. Jennings, C. W., 91b. Jennings, J. D., 126b. Jenny, G., 144a. Jenny, H., 10b. Jensen, C., 94a. Jensen, C. O., 109a. Jensen, D. D., 9a. Jensen, E. M., 141b. Jensen, F. W., 123b. Jensen, H. R., 39b. Jensen, J. H., 91a. Jensen, J. M., 60a. Jensen, J. O., 129b. Jensen, L. S., 137a. Jensen, M. C., 30a. Jensen, M. R., 5b. Jensen, N. F., 88a. Jensen, R., 17a. Jentsch, M. S., 12a. Jeppson, L. R., 14a. Jerdan, A. L., 120b. Jerstad, A. C., 137b. Jesness, O. B., 65a. Jessen, L., 29a. Jessen, R. J., 42a. Jeter, F. H., 92a. Jewell, D. E., 106a. Jewell, R. L., 45b. Jewett, Mrs. F. Z., 58b. Jewett, H. H., 47b. Jewett, R. M., 110a. Jezeski, J. J., 64b. Jobbins, D. M., 81a. Jobe, Mrs. M. A., 7b. Jodon, N. E., 52b. Joffe, J. S., 82b. Joglar-Rodríguez, F., 111b. Joham, H. E., 125b. Johannes, R. F., 143b. Johannesen, L., 30a. Johannessen, G. A., 89a. Johansen, J. P., 76b. Johansen, Mrs. V. W., 83b. Johanson, F. D., 18b. Johansson, A. R., 74a. John, M. E., 109b. Johns, D. M., 51b. Johnsgard, G. A., 95b.

Johnson, A. A., 88a. Johnson, A. J. M., 75a. Johnson, A. M., 103a. Johnson, A. S., IV, 80a. Johnson, B. C., 31b. Johnson, B. E., 5a. Johnson, B. L. (Calif.), 13b. Johnson, B. L. (Mont.), 74a. Johnson, B. V. (III.), 33a. Johnson, B. V. (Miss.), 70b. Johnson, C. E., 40a. Johnson, C. G. H., 15b. Johnson, C. J., 138b. Johnson, C. M., 10a. Johnson, D. S., 65a. Johnson, E., 116a. Johnson, E. A., Jr., 11a. Johnson, E. C., 106a. Johnson, E. L., 42a. Johnson, E. M., 46a. Johnson, E. P., 131b. Johnson, E. T., 125a. Johnson, E. W., 52a. Johnson, F., 136b. Johnson, F. D., 34b. Johnson, G., 15b. Johnson, G. F., 109b. Johnson, G. I., 25a. Johnson, G. L., 47a. Johnson, G. R., 84b. Johnson, H., 41a. Johnson, H. A., 4b. Johnson, H. H., 114b. Johnson, H. S., 69a. Johnson, H. W., 90a. Johnson, I. B. (S. Dak.), III, V, 117a. Johnson, I. B. (Va.), 132b. Johnson, Mrs. I. B., 33a. Johnson, I. C., 63a. Johnson, I. J., 38a. Johnson, J., 142a. Johnson, J. A., 45b. Johnson, J. B. (Ark.), 8b. Johnson, J. B. (Oreg.), 104a. Johnson, J. C., 92a. Johnson, J. D., 132a. Johnson, J. H., 44b. Johnson, J. M. (Fla.), 21b. Johnson, J. M. (Va.), 132a. Johnson, J. P., 19a. Johnson, J. R. (Ga.), 24a. Johnson, J. R. (Tex.), 127b. Johnson, K. E., 76b, 77a. Johnson, K. R., 35b. Johnson, L., 76a. Johnson, L. A., 60a. Johnson, L. E., 98b. Johnson, L. H., 74a. Johnson, L. W., 116a. Johnson, Mrs. M., 50b. Johnson, M. E., 110b. Johnson, Mrs. M. G., 140a. Johnson, M. J. (Iowa), 42b. Johnson, M. J. (Oreg.), 107b.

Johnson, M. J. (Wis.), 140a. Johnson, N., 45a. Johnson, O., 47b. Johnson, O. H., 134b. Johnson, O. R., 71b. Johnson, P. E. (Ill.), 31a. Johnson, P. E. (Ind.), 36a Johnson, P. E. (Okla), 102a. Johnson, P. R., 127b. Johnson, R. E., 18a. Johnson, R. F., 30b. Johnson, R. G., 74a. Johnson, S. M., 18a. Johnson, T. N., 63a. Johnson, V. H., 65a. Johnson, V. L., 135b. Johnson, W. (Okla.), 103a. Johnson, W. (S. C.), 117a. Johnson, W. A., 2b. Johnson, W. B., 58a. Johnson, W. C., 126a. Johnson, W. H. (Ohio), 100a. Johnson, W. H. (Wash.), 135b. Johnson, W. O., 22b. Johnson, W. T., 139b. Johnston, A., 144b. Johnston, B. J., 18b. Johnston, B. R., 59a. Johnston, C. H., 3b. Johnston, C. N., 12a. Johnston, C. O., 43b. Johnston, F. A., 87b. Johnston, F. R., 7a. Johnston, G. W., 68b. Johnston, H. G., 124b. Johnston, J. C., 14a. Johnston, J. E., 50a. Johnston, K. G., 45a. Johnston, Mrs. M. D., 7b. Johnston, N., 97b. Johnston, P. E., 31b. Johnston, R. (Ind.), 37a. Johnston, R. (Mich.), 63b. Johnston, S., 62a, 64b. Johnston, T. H., 101a. Johnston, T. J., 69a. Johnston, T. R., 36b. Johnstone, D. B., 130a. Johnstone, F. E., 25b. Johnstone, F. E., Jr., 98a, 100b. Johnstone, W. C., 46a. Johnstone, W. F., 109b. Joiner, J., 21b. Jolley, M., 51a. Jones, A. H. (Iowa), 41a. Jones, A. H. (Wis.), 142a. Jones, Mrs. A. O., 143a. Jones, A. R., 42a. Jones, A. W. (Ala.), 2b. Jones, A. W. (Tenn.), 122b. Jones, B. A., 130b. Jones, C. H. (Ohio), 96b. Jones, C. H. (Vt.), 130a.

Jones, C. M., 115a. Jones, C. P., 56b. Jones, C. W. (Ky.), 48a. Jones, C. W. (N. Y.), IV, VII. Jones, D. C., 104b. Jones, D. F., 19b. Jones, D. G., 119b. Jones, D. L., 127a. Jones, D. O., 98b. Jones, D. W., 23b. Jones, E., 96a. Jones, E. D., 142b. Jones, E. M., 66a. Jones, F. C., 5a. Jones, F. R., 124a. Jones, G., 27a. Jones, G. D. (N. C.), 91a. Jones, G. D. (Va.), 133b. Jones, H., 34b. Jones, H. B., 120b. Jones, H. D., 84b. Jones, H. E., 67a. Jones, H. L., 69b. Jones, H. M. (Mass.), 57b. Jones, H. M. (Tenn.), 122a. Jones, H. S., 138b. Jones, I., 94a. Jones, I. D., 93a. Jones, I. R., 105a. Jones, J., 121b. Jones, J. E., 132b. Jones, J. H., 123b. Jones, J. I., 36b. Jones, J. K., 116a. Jones, J. M., 123b. Jones, J. O., 120b. Jones, J. W., 115a. Jones, L. C., 46b. Jones, L. D., 42b. Jones, L. E. (Ala.), 4b. Jones, L. E. (Oreg.), 105a. Jones, L. G. (Calif.), 10b. Jones, L. G. (Tex.), 123a. Jones, L. H., 56a. Jones, L. I., IV, VI, 68a, 69a. Jones, L. L., 78a. Jones, L. M., 42b. Jones, L. S., 26a. Jones, L. W. (Ark.), III, IV, 6a. Jones, L. W. (Utah), 128a. Jones, M., 140b. Jones, Mrs. M. A., 139b. Jones, M. D. (Me.), 53a. Jones, M. D., (Okla.), 101a. Jones, M. E., 120b. Jones, M. F., 25b. Jones, M. L., 61b. Jones, M. M., 71b.

Jones, M. V., 10a.

Jones, P. D., 109a.

Jones, R. E. (Conn.), 19a.

Jones, R. E. (Nebr.), 77b.

Jones, R. E. (N. C.), 94a

Jones, O., 18b.

Jones, R. J., V, 101a. Jones, R. K., 38a. Jones, R. R., 2b. Jones, R. W., 49a. Jones. S., 51b. Jones, S. C., 105b. Jones, T. H., 122a. Jones, T. J., 24a, 26a. Jones, T. N., 69a. Jones, U. S., 68a. Jones, W. E., 69b. Jones, W. H., 124b. Jones, W. L., 101a. Jones. W. W., 14b. Jordan, A. R., 75a. Jordan, C. R., 52b. Jordan, F. N., 16a. Jordan, G. L., 32a. Jordan, Mrs. H. C., 7a. Jordan, H. G., 15b. Jordan, H. V., 68a. Jordan, J. V., 29b. Jordan, P. S., 67b. Jordan, R., 37a. Jordan, R. M., 118a. Jordan, W. E., 91b. Jordan, W. K., 85b. Jordán-Molero, F., 112b. Jorgensen, C. J. C., 16b. Jorgensen, E. A., 141a. Jorgensen, R. N., 110a. Jorgenson, A. N., 17a. Jorgenson, S., 81b. Jorns, B. S., 142a. Josephson, D. V., 109a. Josephson, L. M., 46a. Joslyn, M. A., 9b. Josselyn, D., 79b. Joule, T. L., 72b. Jourdon, R. H., 17a. Juaire, M. A., 141b. Jubb, Mrs. A. C., 61b. Judkins, B. A., 80a. Judkins, W. P., 133a. Juergenson, E. M., 11b. Jugenheimer, R. W., 31a. Juhn, M., 55b. Julien, L. M., 13a. Julifs, A. M., 66a. Jull, M. A., 55b. Jungherr, E. L., 17a. Junkins, S. C., 52a. Junnila, W. A., 18a. Justin, C., II. Justin, M. M. (Ind.), 37b. Justin, M. M. (Kans.), 44b.

Kadel, H., 103a. Kaesberg, P. J., 140a. Kaeser, H. E., 96b. Kafka, H. B., 66a. Kagarice, M. L., 41a. Kahler, J. I., 136a. Kahnke, M. J., 17a. Kainer, R. A., 137b. Kaiser, E., 87b. Kaiser, G. E., 33a. Kaiser, L. W., 87a. Kaldor, D. R., 39b. Kalin, E. W., 136b. Kalkus, J. W., 134a, 137b. Kallio, A., 4b. Kaloostian, G. H., 129b. Kaloyereas, S., 49b. Kalton, R. R., 38a. Kamine, A. B., 26b. Kammlade, W. G., 30a, 31b, Kamp, J. R., 33b. Kanehiro, Y., 29a. Kanipe, L. A., 106a. Kano, A., 15b. Kapp., L. C., 123a. Kapphahn, H. E., 60b. Kapuscinski, F. K., 95b. Karcher, A. H., Jr., 125a. Kardos, L. T., 79a. Karling, J. S., 34b. Karper, R. E., 127a. Karraker, P. E., 46a. Karstens, G. A., 36a. Kasperson, M., 118b. Kasson, P. R., 95b. Kastelic, J., 39a. Kaster, D. L., 90a. Katona, A., 15b. Kaufert, F. H., 65b. Kauffman, H. H., 111b. Kauffman, L. A., 99b. Kaufman, C. M., 92b. Kaufman, H. F., 68b. Kaufman, L. A., 96a. Kaufmann, O. W., 32b. Kautz, L. G., 15a. Kawano, Y., 29a. Kawin, B., 59a. Kay, E. W., Jr., 13a. Kay, R. P., 50b. Kays, D. J., 96a. Kays, J. M., 71a. Kays, W. R., 103b. Kean, G. R., 108b. Keane, B. I., 10a. Kearl, B. E., 142a. Kearl, C. D., 85b. Keathley, M. G., 101a. Keaton, C. R., 83b. Keefer, R. M., 11a. Keeler, R. I., 77a. Keen, R. A., 45a. Keenan, E. W., 120a. Keenan, W. E., 68a. Keener, H. A., 79b. Keener, P. D., 5b. Keener, R. L., 25b. Keeny, M., 54b. Kehr, A. E., 51a. Keim, F. D., 75a. Keim, J. F., 110a.

Keirns, V., 98a. Keirstead, L. G., 19a. Keister, M. E., 121b. Keith, H. B., 107b. Keith, T. B., 29b. Keitt, G. W., 142a. Kelbert, D. G. A., 23b. Kelk, O. M., 54a. Kelker, G. H., 129a. Kellar, L. G., 103a. Kellar, V. M., 55a. Kellenbarger, S., 134a. Keller, E. L., III, VII. Keller, H., Jr., 81a. Keller, K. R., 106a. Keller, L. L., 121b. Keller, W., 128a. Kelley, I. B., 37a. Kelley, J. B., 47b. Kelley, J. L., 58b. Kelley, L. R., 130a. Kelley, Mrs. M. J., 48a. Kelley, O. J., 14b. Kelley, P. L., 44a. Kelley, V. W., 33b. Kelley, W. B., 3b. Kellgren, H. C., 51b. Kelling, R. V., 17a. Kellogg, L. F., 40b. Kellogg, P. P., 85b. Kelly, A. (Mo.), 72a. Kelly, A. (Wis.), 141b. Kelly, A. L., 61b. Kelly, E. E., 95b. Kelly, E. G., 20b. Kelly, Mrs. E. M. C., 45b. Kelly, J., 91a. Kelly, J. B., 130a. Kelly, J. W., 93a. Kelly, P. L., 76b. Kelly, R. A., 32a. Kelly, W. C., 89a. Kelman, A., 91a. Kelsey, L. D., 86b. Kelsheimer, E. G., 23b. Kelso, M. M., 74a. Kemmerer, A. R., 5b. Kemmerer, H. R., 33b. Kemmerly, C. E., Jr., 50b. Kemp, W. B., 54a. Kempe, L. L., 32b. Kemper, C. R., 138b. Kempster, H. L., 72b. Kempthorne, O., 42a. Kenck, R., 74b. Kendall, G., 22a. Kendall, K. A., 31b. Kendall, M. F., 116b. Kendrick, J. B., 12b. Kendrick, J. B., Jr., 14b. Kendrick, M. S., 85b. Kenestrick, H. G., 97a. Kennamer, E. F., 2b. Kennard, D. C., 100b. Kennard, W. C., 111a.

Kennedy, A. C., 97a. Kennedy, A. L., 120b. Kennedy, B. M. (Calif)., 10a. Kennedy, B. M. (Conn.), 19a. Kennedy, Mrs. J. F., 97b. Kennedy, R. C., 79a. Kennedy, V. D., 30a. Kennedy, W. E., 31a. Kennedy, W. K., 84a. Kennedy, W. L., 94a. Kennedy, W. T., 2a. Kennett, N. I., 92b. Kenney, R., 46a. Kenney, W. D., 27b. Kennington, S. S., 128b. Kent, B. F., 32b. Kent, G. C. (La.), 51b. Kent, G. C. (N. Y.), 88a. Kenworthy, A. L., 62a. Kenworthy, E. D., 104a. Kenzy, S. G., 42b. Kepcha, L., 38b. Kepner, H. R., 129a. Kepner, R. A., 11b. Kepner, R. E., 11a. Kerby, D. C., 30b. Kerchberger, V. H., 39a. Kern, E. E., 68b. Kernkamp, H. C. H., 67a. Kernkamp, M. F., 66b. Kerr, H. A., 86b. Kerr, M. H., 54a. Kerr, T. W., Jr., 114b. Kerstetter, A. M. J., 111b. Kertesz, Z. I., 89a. Kesler, E. M., 109b. Kessler, F. B., 46b. Kessler, G. M., 62a. Kesterson, J. W., 22b. Ketchen, J., 116a. Ketchum, Mrs. C. W., 60b. Ketchum, L., 61b. Kettunen, A. G., 60b. Kever, J. W., 13a. Keyes, C. G., 18b. Keyes, E. A., 74a. Keyes, W. B., 18b. Keyser, C. A., 57a. Kezer, A. M., 41a. Kibler, H. H., 71a. Kidd, E. L., Jr., 3a. Kidder, E. H., 60b. Kidder, R. W., 23a. Kidwell, J. F., 49b. Kiehl, E. R., 71b. Kienholz, A. R., 18b. Kienholz, J. R., 107b. Kiesselbach, T. A., 76a. Kightlinger, C. V., 56a. Kik, M. C., 6b. Kilbuck, J. H., 9b. Kilburn, A. G., 128a. Kildare, A. A., 73b. Kildee, H. H., 42b. Killgore, A. G., 49a.

Killham, B. J., 63b. Killian, J. R., Jr., III, IV, VI. Killinger, G. B., 21a. Killough, D. T., 123a. Kilpatrick, E. J., 47b. Kiltz, K. W., 36a. Kimball, E., 114b. Kimball, K. H., 89b. Kimbrough, E. A., Jr., 69a. Kimbrough, W. D., 51a. Kime, P. H., 90a. Kimmel, D. C., 21b. Kimmelshue, F. A., 33a. Kimrey, A. C., 91a. Kinard, D. T., 25a. Kincaid, C. M., 131.a Kincaid, R. R., 23b. Kincer, H. C., 119a. Kinch, D. M., 36a. Kinch, R. C., 117b. Kinder, F., 61b. Kinder, Q. B., 72b. Kindschy, D. L., 30a. King, A. M., 97b. King, A. S., 107b. King, Mrs. A. T., 139b. King, A. V., 18b. King, C. (Kans.), 43b. King, C. (Tenn.), 122b. King, D. F., 3a. King, E. L., 23b. King, F. B., VII, 130b. King, F. M., 33a. King, F. P., 27a. King, G. B., 135a. King, G. H., 24a. King, G. S. (Hawaii), 29a. King, G. S. (Mass.), 58a. King, H. L., 60b. King, J., 76a. King, J. M., 123a. King, L. A., 120a. King, Mrs. M. G., 119a. King, Mrs. M. M., 23b. King, N. B., 98b, 100b. King, R. A., 18a. King, R. G., 125a. King, T. H., 66b. King, W. A. (Ga.), 24b. King, W. A. (S. C.), 115b. King, W. B., 15b. King, W. L., 47a. King, Z., 102b. Kingma, F. J., 98b. Kingsley, A. F., 95a. Kingsolver, C. H., 71a. Kinkead, C., 101b. Kinnear, D. L., 132a. Kinney, C. E., 102a. Kinney, E. E., 64a. Kinney, L. F., Jr., 114a. Kinnikin, J., 104b. Kinsey, E. M., 97b. Kinsler, E., 23b. Kinsloe, H. L., 109a.

Kinsman, D., 79a. Kintner, L. D., 73b. Kiplinger, D. C., 98a, 100b. Kipps, M. S., 131a. Kirby, A. G., 8b. Kirby, R. S., 109a. Kirchner, C., 66b. Kirchner, P. H., 89a. Kirk, D. E., 105b. Kirk, O. C., 129b. Kirk, W. G., 23b. Kirk, W. T., 144a. Kirkendall, L. A., 106b. Kirkham, D., 38a. Kirkland, J. B., 92a. Kirkland, K. L., 125a. Kirkley, F. E., 116a. Kirkpatrick, C. M., 36b. Kirkpatrick, E. M., 37a. Kirkpatrick, H. G., 136b. Kirtley, M. B., 71b. Kiser, J. J., 118a. Kiser, O. E., 81a. Kiser, O. M., 67b. Kish, A. F., 20a. Kissel, L. T., 99a. Kistler, J. B., 110a. Kitchell, R. L., 67a. Kitchen, D., 77a. Kitchen, Mrs. H. B., 81a. Kitchen, J. B., Jr., 80b. Kite, G. D., 132b. Kitselman, C. H., 45b. Kittredge, J., 9b. Kitts, H., 65a. Kivlehen, F. H., 125b. Kivlin, V. E., IV, VI, 139a, 141a. Kizer, D. E., 35b. Klackle, R. L., 37b. Klages, K. H., 29a. Klages, M. G., 95b. Klavano, P. A., 137b. Kleckner, A. L., 26a. Kleiber, M., 11a. Klein, G. T., 58b. Klein, L. G., 89b. Klein, L. M., 105b. Klein, W. H., 37b. Kleis, R. W., 60b. Klemme, A. W., 73a. Klepser, H. J., 121a. Kliewer, I. O., 104b. Klinck, M. S., 18a. Kline, E. A., 39a. Kline, G., 126b. Klingelhoets, A. J., 117b. Klinger, B., 15a. Klingman, G. C., 90a. Klingner, C. E., 71b. Klinker, J. E., 48a. Klopfer, B. J., 136a. Klosterman, E. W., 94a. Kiosterman, H. J., 95a. Klostermeyer, E. C., 135b.

Klotz, L. J., 14b. Klug, H. L., 118a. Knapp, B., Jr., 75b. Knapp, F. T., 126a. Knapp, J. O., 137a, 138a. Knapp, J. S., 87a. Knapp, W. C., 127a. Knaus, H. R., 36b. Knaysi, G. A., 85b. Kneebone, L. R., 109a. Kneeland, C. J., 114b. Knepp, D., 121b. Knepp, E. M., 120b. Knight, C. W., 50a. Knight, D. A., 44a. Knight, G., 59b. Knight, G. E., 61b. Knight, J. E., 50b. Knight, R. E., 30b. Knight, S. G., 140a. Knight, W. H., 30a. Knight, W. R., 60a. Knoblauch, H. C., II. Knoch, R. E., 138b. Knodt, C. B., 109b. Knoll, M. M., 61b. Knoop, C. E., 99b. Knorr, L. C., 22b. Knott, J. C., III, 134a. Knott, J. E., 12b. Knowles, E. L., 131a. Knowles, P. F., 10b. Knowlton, G. F., 129b. Knox, E. G., 31a. Knox, F. E., Jr., 27a. Knox, J. E., 46b. Knox, J. H., 83a. Knudsen, L. L., 100a. Knudsen, V. O., VII. Knudson, L., 85a. Knull, J. N., 99a. Knuti, L. L., 74b. Kob, H. H., 16a. Kocaba, H. L., 19a. Koch, C. B., 129a. Kochheiser, E. T., 97b. Koehler, B., 31a. Koepper, W. E., 109b. Koffler, H. E., 34b. Koger, M., 83a. Kohl, H. C., Jr., 81b. Kohl, M. F., 74b. Kohler, M. E., 97b. Kohler, P. H., 118b. Kohlmeyer, J. B., 35b. Kohlmeyer, W., 119a. Kohls, H. L., 61a. Kohls, R. L., 35b. Kohnke, H., 34a. Kolb, J. H., 142b. Kolbe, M. H., 138b. Koller, E. F., 65a. Kolshorn, A. M., 106b. Kommedahl, T., 66b. Konde, W. N., 3a.

Koon, R. M., 58a, b. Koonce, D. W., 14b. Koonsman, G. L., 16a. Kooser, H. L., 41b. Kopland, D. V., 75b. Kopper, H. R., 44a. Korando, S., 18b. Korbobo, R. P., 81b. Kornegay, C. L., 1a. Kornfeld, W., 26b. Korson, J. H., 58a. Korzan, G. E., 105b. Kosikowsky, F. V., 85b. Kosin, I. L., 137a. Kostir, W. J., 99a. Kottman, R. M., 38a, 39a. Koudele, J. W., 44a. Koutz, F. R., 98b, 100b. Kovar, A. J., 109a. Kowalczuk, J. G., 50b. Kowalczyk, T., 142b. Kozeff, A., 19a. Kozicky, E. L., 42b. Kozlowski, T. T., 56a. Kraemer, J. H., 36b. Kraenzel, C. F., 74b. Krall, J. L., 75b. Kramer, A., 55b. Kramer, Mrs. E. G., 7a. Kramer, H. A., 126b. Kramer, H. H., 34a. Kramer, M. M., 45a. Kramer, N. W., 127a. Kramer, R. C., 60a. Krantz, F. A., 66a. Kratochvil, D. E., 117b. Kratzer, F. H., 12b. Kraus, J. E., 29a. Krauss, W. E., V, 99a. Krausz, N. G. P., 32a. Krauter, H. M., 61b. Krebs, A. H., 32a. Krebs, Mrs. D. D., 105a. Kreitler, C. F., 101b. Kreitlow, B. W., 141a. Kreizinger, E. J., 136a. Kremer, J. C., 62a. Krenzin, R. E., 38a. Krewatch, A. V., 55a. Krezdorn, A. H., 125b. Kribs, D. A., 109a. Kriebel, H., 80a. Krienke, W. A., 21b. Krill, W. R., 96a, 98b, 100b. Krimel, D. W., 41b. Kring, J. S., 122a. Kristjanson, B. H., 95a. Kristjanson, K., 118a. Krone, P. R., 62a. Kross, J. I., 140b. Kroth, E. M., 127b. Krueger, M. E., 9b. Krueger, W. C., 81a. Kruger, F. C., 121a. Krukovsky, V. N., 85b.

Krum, J. K., 122a. Krusekopf, H. H., 73a. Kucera, C. L., 71a. Kucinski, K. J., 56a. Kuehn, J. F., 65b. Kuehner, C. L., 142a. Kugler, H. L., 44b. Kuhlman, A. H., 102a. Kuhlman, G. W., 105b. Kuhlman, M., 77b. Kuhn, A. O., 54a. Kuhn, B. D., 60b. Kuhn, L. W., 106a. Kuhnert, C. M., 7b. Kuiken, K. A., 123b. Kuitert, L. C., 22a. Kulas, M., 16b. Kulash, W. M., 91b. Kull, R. R., 135b. Kulp, D. A., 32b. Kumler, K. W., 103a. Kumlien, W. F., 119b. Kummer, F. A., 2a. Kummerow, F. A., 32b. Kundiger, D. G., 43b. Kunkel, H. O., 140a. Kunkel, N. W., 62a. Kunkel, R., 16b. Kunkle, L. E., 96a, 99b. Kunsela, W. R., 86a. Kuntz, J. E., 142b. Kurtz, L. S., 83b. Kurtz, L. T., 31a. Kurtz, M. B., 63b. Kurtz, P., 106b. Kuschke, Mrs. B. M., 114b. Kuska, J. B., 46a. Kutish, F. A., 39b. Kutsky, R. J., 10a. Kutz, D. E., 139a. Kutzman, N. J., 75a. Kuykendall, R., 70b. Kuzmeski, J. W., 56b. Kuznets, G. M., 8b. Kyd, R. R., 134b. Kyd, S., 102b. Kyer, G. M., 94a. Kyle, B. K., 132b. Kyle, L. M., 35b. Kyle, M. C., 97b. Kyzer, E. D., 117a.

L

LaBelle, R. L., 89a.
LaBoon, M. L., 25b.
Lacey, J. J., 140a.
LaChance, V., 80b.
Lachman, W. H., Jr., 58b.
LaCroix, M. M., 50b.
Lacy, E., 48a.
Lacy, M. D., 84b.
Ladd, J. E., 114a.
Ladd, L. L., 117b.
Ladeburg, R. C., 30b.
Lafferty, D. G., 6b.

LaFond, L. H., 63b. Lagasse, F. S., 22a. LaGrange, W. F., 39a. Laguna, F., 112b. LaHue, D. W., 27b. Laidlaw, H. H., Jr., 11b. Laird, R. J., 68a. Lake, W. S., 57a. La Master, J. P., 115b. Lamb, Mrs. B. I., 89b. Lamb, C. A., 96a, 99a. Lamb, J., Jr., 84a. Lamb, R. C., 89b. Lambert, J. W., 64a. Lambert, R. E., 6b. Lambert, W. V., V, 75a, 77a. Lambeth, V. N., 72b. Lamborn, E. W., 128b. Lamkin, Mrs. G. H., 33a. Lammers, O. A., 75b. LaMotte, C., 123b. Lamp, B. J., 97a. Lampe, L., 96b. Lampman, C. E., 30b. Lana, E. P., 41b. Lancaster, R. M., 68a. Lancelot, W. H., 40a. Land, D. P., 122b. Land, W. B., 25a. Landauer, W., 18a. Landblom, N. L., 17b. Landers, L. R., 144b. Landis, P. H., 137a. Landon, R. H., 66b. Landrau, P., 113a. Landreth, C., 10a. Lane, G. H., 15a. Lane, L. R., 106b. Lane, R., 127a. Lang, A. L., 31a. Lang, C. C., 97b. Lang, C. P., 110a. Lang, E. F., 136a. Lang, R. L., 143a. Langan, W. M., 107b. Langdon, C. L., 60a. Langdon, G. E., 142a. Lange, A. H., 5b. Lange, W. H., 11b. Langer, C. A., 62a. Langford, C. H., 115b. Langford, G. S., 55a. Langford, J. W., Jr., 57a. Langford, L., 96b. Langford, Mrs. V. J., 92b. Langford, W. R., 72a. Langham, R. F., 63b. Langley, A., 24a. Langley, B. C., 127a. Langley, L., 92b. Langlois, T. H., 99a. Langord, L., 142a. Lanham, B. T., Jr., 1b. Lanham, G., 116a. Lanier, K., 25b.

Lank, R. B., 51b. Lankford, L. T., 6b. Lantrip, D. S., 7a. Lantz, E. M., 84a. Lantz, H. L., 41b. LaPlante, A. A., Jr., 86b. LaPrade, J. L., 133a. Lardy, H. A., 140a. Large, J. R., 21a. LaRivers, I., 78a. Lark-Horovitz, K., 37b. Larmie, W. E., 114b. LaRock, M. J., 141a. Larsen, C. B., 119b. Larsen, J. A., 40b. Larsen, L. F., 77a. Larsen, N., 28b. Larsen, P. B., 128b. Larsen, W., 77a. Larson, A. H., 66b. Larson, A. L., 102a. Larson, C. A., 108a, b. Larson, C. L., 65a. Larson, J. L., 66b. Larson, Mrs. N. M., 58a. Larson, O. F., 88b. Larson, R. A., 117a. Larson, R. E. (Ind.), 37a. Larson, R. E. (Pa.), 111a. Larson, R. H., 142b. Larson, V. C., 62b. Larson, W. E., 74a. Larzelere, H. E., 60a. Lasater, H., 103b. Lashbrook, M., 4a. Lashbrook, R. R., 45b. Lasley, E. L., 94a. Lasley, J. F., 71a. Lassiter, A. T., 131a. Latham, D. H., 122a, b. Lathmell, D. J., 84a. Lathrop, F. H., 53a. Lathrope, H. R., 34a. Lathwell, C., 63b. Latimer, L. P., 80b. Lattimore, W. B., 124b. Lattin, G. W., 87b. Latzke, A. C., 44b. Latzke, V., 48a. Laude, H. H., 43a. Laude, H. M., 10b. Lauden, L. L., 49a. Lauffer, R. G., 111b. Laughlin, W. M., 4b. Laurance, B. M., 14b. Laurie, A., 98a, 100b. Lauritzen, C. W., 129a. Lautner, H. W., 62a. Lavallard, Mrs. M. L., 6b. Law, A. G., 134a. Law, D. K., 106b. Law, J. M., 6b. Law, W. P., 116a. Lawrence, A., 128b. Lawrence, Mrs. A. S., 105a. Lawrence, C., 48b. Lawrence, E. L., 135a. Lawrence, F. P., 22a. Lawrence, G. H. M., 88a. Lawrence, J. M. (Ala.), 3b. Lawrence, J. M. (Wash.), 135a. Lawrence, N. L., 105a. Lawrence, R. L., 40b. Lawrence, W. W., 105b. Lawritson, M N., 76b. Laws, J. L., 81b. Laws, Mrs. R. M., 20a. Laws, W. R., 94a. Lawson, B. C., 36a. Lawson, F. A., 122b. Lawson, G. C., 55a. Lawson, J. L., 1a, 2a. Lawson, M., 6a. Lawson, R., 120b. Lawton, K., 63a. Lazar, J. T., 115b, 116a. Lazear, E. J., 96b. Leach, C. W., 2a. Leach, J. G., 138b. Leach, L. D., 12b. Leagans, J. P., 86a. Leake, D. V., 101b. Leamer, R. W., 84b. Leamy, W. P., 130a. Lear, B., 88a. Lear, S. A., 80b. Lease, E. J., 115b. Leasure, E. E., 45b. Leasure, J. K., 119a. Leavitt, A., 63b. Leavitt, R. K., 71a. LeBaron, H. R., 110b. LeBaron, M. J., 29a. Lebedeff, G. A., 26a. Leben, C. C., 142b. LeBlanc, R. B., 124a. LaBossier, I. J., 81b. Lebrun, E. J., 53a. Leckie, J. N., 132a. LeCompte, S. B., Jr., 81b. LeCrone, F., 103b. Ledbetter, Mrs. A. M., 102b. Ledbetter, M., 106b. Lederberg, J., 141b. Ledford, M., 25b. Leding, A. R., 84b. LeDuc, D. M., 63b. Lee, B. L., VII, 141b. Lee, C. D., 42a, b. Lee, D. R., 124a. Lee, F., 3b. Lee, F. A., 89a. Lee, G. B., 117b. Lee, I. M., 8b. Lee, J. A., 61b. Lee, J. G., Jr., 49a. Lee, J. G., III, 50a. Lee, J. L., 50b.

Lee, M. E., 92b. Lee, M. J., 20b. Lee, O. C., 35a. Lee, R. E., 87a. Lee, S., 51a. Lee, W. A., 109b. Lee, W. D., 90a. Leebrick, K. C., 28a. Leeby, C., 95b. Leeder, J. G., 80b. Leekley, J. R., 4b. Leeper, P. W., 127b. Lefebvre, C. L., II. Lefebre-Muñoz, R., 112a. Leffel, E., 54b. Lefforge, J. H., 35a. Legates, J. E., 91a. Legett, E. E., 69b. Leggitt, D., 124b. Lehker, G. E., 36a. Lehman, J. J., Jr., 15b. Lehman, R. T., 97b. Lehman, S. G., 91b. Lehmann, E. W., 32a. Lehotsky, K., 116b. Lehrer, W. P., Jr., 29b. Leibel, J. L., 118a. Leibold, A. A., 3a. Leiby, R. W., 86b. Leichsenring, J. M., 66a. Leidigh, M. E., 103a. Leifson, S. W., 78b. Leighton, Mrs. D., 85a. Leighton, M. E., 86b. Leighton, R. D., 64b. Leighton, R. E., 124a. Leighty, R. G., 22b. Leinbach, F. H., III, 117a. Leindorff, Mrs. A., 141b. Leith, T. S., 42b. Leite, V., 118b. Leland, H. A., 57b. Leland, W. J., 43b. Lemley, Mrs. J. F., 138a. Lemmien, W., 59b. Lemmon, R. S., 22a. Lemons, E., 103b. Lenert, A. A., 126a. Leng, E. R., 31a. Lennox, J. A., 87a. LeNoir, E., 50b. Lent, J. M., 18b. Lentz, A. N., 81b. Lentz, J. B., 58b. Leonard, C. D., 22b. Leonard, H. W., 36a. Leonard, J., 62a. Leonard, L. B., 46a. Leonard, M. P., 129b. Leonard, N. B., 87a. Leonard, O. A., 11a. Leonard T., 103a. Leonard, W. H., 14b.

Leone, I. A., 82a.

Leopold, A. C., 37b. Leopold, Mrs. C. N., 77b. Leoppert, R. H., 91b. Lepkovsky, S., 10b. Lerner, I. M., 10b. LeRoy, R. H., 124a. Lesley, J. W., 14b. Leslie, E. E., 115b. Lester, C., 3b. Lester, P., 4a. Leuschner, F. H., 111b. Levcowich, T., 110b. Leveck, H. H., 68a. Lever, B. F., 8b. Leverton, R. M., 77b. Levin, M. D., 129b. Levine, A. S., 58b. Levine, M. N., 66b. Levine, M. P., 57a. Levine, N. D., 33b. Levitan, M., 131b. Levitt, J., 71a. Levy, H. E., 51b. Lewis, A., 50b. Lewis, A. B., 94a. Lewis, C. A., 47b. Lewis, C. E., 93b. Lewis, C. F., 123a. Lewis, D., 72b. Lewis, Mrs. E., 4a. Lewis, F. C., 36a. Lewis, F. H., (Calif.). 13b. Lewis, F. H. (Pa.), 109a. Lewis, G. C., 29b. Lewis, G. R., 4b. Lewis, H., 49b. Lewis, H. D., 11b. Lewis, J. K., 118a. Lewis, J. M. (III.), 34b. Lewis, J. M. (S. C.), 115a. Lewis, M., 61b. Lewis, M. M., 97b. Lewis, M. T., 111a. Lewis, R. C., 60a. Lewis, R. D. (Tex.), IV, 123a. Lewis, R. D. (Wyo.), 143a. Lewis, T. T., 23b. Lewis, W. M., 141b. Lewis, W. W., 131a. Leyendecker, P. J., Jr., 83a. L'Hote, H. J., 73b. Li, J. C., 106a. Libby, W. C., VI, 52a. Libeau, C. P., 30a. Licciardello, J., 53a. Lichte, F. E., 124b. Lickert, R. H., 47b. Lickfeldt, A. L., 62a. Liden, C., 54a. Lider, L. A., 13b. Lidvall, E. R., Jr., 119b. Lieberman, F. V., 129b. Liebig, G. F., 14b. Lien, R. M., 36a.

Liener, I. E., 64b. Lienk, S. E., 89a. Liesch, G. D., 141b. Ligon, L. L., 101a. Ligon, Mrs. M. S., 33a. Liljedahl, J. B., 120b. Lill, J. G., 61a. Lillard, J. H., 132b. Lillard, R. B., 50b. Lilleland, O., 12b. Lilly, J. H., 42b. Lilly, V. G., 138b. Liming, A. N., 36b. Liming, F. G., 72a. Lincheid, C. H., 84a. Lincoln, C. G., 7a. Lincoln, F. B., 23b. Lincoln, R., 97b. Lind, R. C., 43a. Lindgren, D. L., 14a. Lindgren, H. A., 104b. Lindgren, L. F., 76b. Lindley, C. E., 134b. Lindner, M., 135a. Lindner, R. C., 136b. Lindon, P. H., 16a. Lindor, L. K., 67b. Lindquist, E., 136a. Lindquist, H. G., 56b. Lindquist, W. D., 63b. Lindsay, A. A., 35a. Lindsay, C., 72a. Lindsey, A. H., 57a. Lindsey, R. S., 20a. Lindstrom, D. E., 32a. Lineweaver, G. A., 40b. Linford, G. A., 129b. Linford, M. B., 33b. Lininger, F. F., V, 108a. Link, C. B., 55b. Link, H. F., 47b. Link, K. P., 140a. Link, L. A., 46a. Link, R. P., 33b. Linkous, W. N., 131b. Linn, E. R., 102b. Linn, J. W., 43b. Linn, M. B., 33b. Linsley, C. M., 31a. Linsley, E. G., 9a. Linton, D. C., 128a. Lionberger, H. F., 73a. Lipovsky, I., 56a. Lipscomb, R. W., 23b. Lisse, M. W., 109a. List, R. L., 121b. Liston, M. I., 39b, 41a. Litherland, J. W., 40a. Little, H. W., 21b. Little, J. E., 130a. Little, L. D., Jr., 111a. Little, M. F., 110b. Little, R., 132b. Little, T. M., 78a, b. Little, V. A., 124b.

Littlefield, L. E., 53b. Littlefield, R. B., 79a. Littlehale, A. D., 79b. Litton, G. W., 131a. Litton, R. B., Jr., 10a. Litwiller, E. M., 106b. Litzenberger, S. C., 4b. Lively, C. E., 73a. Livermore, D. U., 132a. Livermore, J. R., 88a. Livesay, E. A., 137b. Livingston, J. E., 78a. Livingston, K. W., 2a. Livingston, R. B., 56a. Livingston, R. L., 2b. Livisay, Mrs. T. J., 139b. Llewellyn, L. O., 3a. Lloyd, F., 97b. Lloyd, G. W., 55a. Lloyd, O. G., 35b. Lloyd, W. B., 59b. Loar, M. T., 55a. Locke, J. F., 68b. Locke, S. B., 136b. Lockett, J. L., 133a. Loden, H. D., 24a. Loeffel, W. J., 76a. Loegering, W. Q., 66b. Loewenstein, M. S., 102a. Lofgreen, G. P., 11a. Lofgren, J. A., 118b. Loften, W. T., 21b. Loftin, M. T., 68b. Logan, L., 103a. Logan, L. E., 47b. Logan, N. P., 121b. Logue, H. E., 3b. Lohman, M. L., 28a. Lohr, Mrs. K. R., 141b. Lojkin, M. E., 58a. Lollar, Mrs. B. B., 68b. Lomas, C. H., 115b. Lomasney, W. F., 114a. Lomax, Mrs. B., 139b. Lomax, J. W., 77a. Lombard, L., 142b. Lommel, W. E., 37b. Long, A., 37a. Long, D. R., 105b. Long, E. J., 120b. Long, J., 103b. Long, J. B., 106a. Long, O. H., 119a. Long, R. A., 101b. Long, R. E., 82b. Long, R. G., 121a. Long, T. F., 33a. Long, W. T., 22b. Longacre, G. V., 138b. Longenecker, G. W., 142a. Longhouse, A. D., 138a. Longmire, F. E., 32b. Longnecker, E. D., 63a. Longree, K., 88a. Longsdorf, L. L., 45b.

Longstaff, J. B., 57a. Longwell, J. H., 70a. Lonnquist, J. H., 76a. Loomer, C. W., 140b. Loomis, C. P., 62b. Loomis, R. A., 135a. Loomis, W. E., 39a. Looney, E. J., 97b. Loope, K. E., 132a. Loosli, J. K., 84b. Loper, R. M., 87b. López, L., 113a. López, M. E., 112b. López-Pumarada, M. A., 112a. López-Ramos, B., 113a. Lord, G. E., 53a. Loree, R., 51a. Loreen, O., 135b. Lorenz, F. W., 12b. Lorenz, O. A., 13a. Lorenz, R. W., 33a. Lorenzen, C., 11b. Lorenzen, R. T., 143b. Lorz, A. P., 22a. Losey, J. E., 35b. Lott, E. J., 36b. Lott, R. V., 33b. Lott, W. F., 104b. Lott, W. L., 91b. Lotz, W. E., 122b. Loudon, G., 50a. Loughary, I. H., 143b. Loughead, M. E., 74b. Loughlin, M. E., 79b. Louhi, H., 106b. Loustalot, A. J., II. Love, A. B., 60a. Love, E. P., 55a. Love, H. C., 44a. Love, H. M., 132a. Love, L. A., 4b. Love, M. A., 78a. Love, R. M., 10b. Love, W. B., 59b. Lovejoy, K. C., 53a. Lovelace, I., 121b. Lovelady, V., 48a. Lovering, M., 95b. Low, F. W., 125a. Low, J. B., 129a. Low, P. F., 34a. Lowe, A. E., 46b. Lowe, B., 41a. Lowe, Mrs. D. F., 94a. Lowe, E. K., 102b. Lowe, H. J., 143b. Lowe, M. W., 38a. Lowe, P. M., 65a. Lower, M. C., 110b. Lowery, G. H., 51b. Lowery, J. C., 1a. Lowery, Mrs. J. H., 139b. Lowery, O. H., 36a. Lownsbery, B. F., Jr., 88a. Lowrey, G., 76a.

Lowrey, R. D., 4a. Lowry, S. J., 49b. Loy, L. V., 57b. Lubinus, L., 118b. Lucas, E. H., 62a. Lucas, G. B., 91b. Lucas, H. L., Jr., 93a. Lucas, P. S., 60a. Lucas, W. G., Jr., 20b. Luce, M. E., VI, 130b. Luchok, J., 139a. Luckett, J. D., 89a. Ludwick, T. M., 96b, 99b. Ludwig, H. A., 66a. Ludwig, Mrs. M. D., 106b. Luebke, B. H., 120b. Luecke, R. W., 59a. Lueder, F. A., Jr., 87a. Luehrs, G. C., 64b. Luetkemeier, O. W., 34a. Luginbuhl, R. E., 17a. Lugo-López, M. A., 113b. Lugo-Lugo, H., 112a. Luke, G. W., 81a. Lumb, J. W., 46a. Lumb, W. V., 126a. Lumpkin, T. W., 3b. Lumsden, D. V., II. Lund, C. F., 6a. Lund, H. O., 25a. Lund, L., 118b. Lundberg, W. O., 64b. Lunde, R. N., 105b. Lunden, L. R., IV. Lundin, P. G., 60b. Lundquist, N. S., 35b. Lundy, G., 118a. Lundy, H. W., 23b. Lungren, E. A., 15a. Lunnum, K., 136a. Lunt, H. A., 19b. Lush, J. L., 39a. Lush, R. H., 120a. Lusk, J. W., 68b. Lusk, M. S., 136a. Luthin, J. N., 12a. Lutman, Mrs. A. S., 130a. Luttrell, E. S., 26a. Lutz, E. A., 85b. Lutz, J. A., 131a. Lutz, J. F., 90a. Lutz, W. B., 60a. Lux, E., 77b. Lyday, J. R., 25a. Lyerly, P. J., 127b. Lyford, W. H., 79a. Lyle, C., 70a. Lyle, J. A., 1b. Lyle, J. W., 115b. Lyle, M., 41a. Lyle, M. F., 118b. Lyman, C. M., 123b. Lyman, J. F., 96a. Lynch, D. L., 31a. Lynch, F., 125a.

Lynch, M. R., 109b. Lynch, W., 139b. Lynd, J. G., 63a. Lynes, W. E., 76a. Lynn, H. P., 116a. Lyon, A. B., 138b. Lyon, D. E., 121b. Lyon, R. O., 32b. Lyons, J. C., 31a. Lytle, S. A., 49a. Lytle, W. F., 32b. Lytton, L. R., 84b.

M

Maag, D. D., 15b. Mabry, C. E., 8b. MacConnell, W. P., 57b. MacCreary, D., 20a. MacDaniels, L. H., 87a. Macdonald, F. P., 75b. MacDonald, G. B., 40b. MacDonald, H. A., 84a. MacDonald, Mrs. L. R., 98a. MacGillivray, J. H., 13a. MacGregor, J. M., 67a. Machmer, J. H., 27b. MacIntire, W. H., 20a. MacIver, I. T., 58b. Mack, G. L., 89a. Mack, Mrs. M. C., 106a, b. Mack, W. B., 111a. Mack, W. N., 63b. Mackay B. B., 50a. Mackay, E. L., 35a. MacKellar, Mrs. I., 53b. Mackensen, O., 51b. Mackenzie, W. A., 26b. Mackinney, G., 9b. Mackintosh, D. L., 43a. MacLaury, D. W., 47a. MacLean, N. A., 10a. MacLeod, F. L., 121b. MacLeod, H. P., 18a. MacLeod, Mrs. L. D., 60b. Maclinn, W. A., 81b. MacNair, V., 7b. MacNaughton, M A., 61b. MacSwain, J. W., 9a. MacVicar, C., 103a. MacVicar, R. W., 102a. Macy, E. B., 45b. Macy, H., V, 64a, b. Madden, F., 41a. Maddex, R. L., 60b. Maddux, J. N., 120a. Maddy, K. H., 108b. Mader, E. L., 43a. Madison, L. C., 108b. Madison, M. W., 32a. Madsen, H. F., 9b. Madsen, I. L., 16b. Madsen, L. L., 128a. Madsen, M. A., 128a. Madson, B. A., 10b, 12a. Maeser, S., 128b.

Magee, A. C., 124a. Magee, R. A., 105a. Magie, R. O., 23b. Magill, W. W., 48a. Magnuson, O. T., 65b. Magnusson, H., 18b. Magrath, R. C., IV, 79a. Magruder, J. W., 55a. Mahan, C. A., 47b. Maharg, L., 72b. Maher, T. F., 124b. Mahoney, A., 55a. Mahoney, G. W. A., 102b. Mahoney, J. E., 54b. Mahoney, W. J., 55a. Mai, W. F., 88a. Maier, D., 40a. Maier, F., 136a. Mainous, C. G., 50a. Mainquist, M., 144a. Majors, C. L., 104b. Majors, E., 2b. Maker, H. J., 84b. Malcolm, J. L., 23b. Malinosky, E., 98b. Mallalieu, J., 106b. Mallette, L., 3b. Mallmann, W. L., 63b. Mallory, D. E., 58b. Mallory, L. F., 68a. Malmquist, W. A., 67a. Malone, A. E., 111b. Malone, C. C., 39b. Malone, W. A., 62b. Maloney, L. O., 102b. Maloney, P. L., 78b. Malphrus, L. D., 115b. Maltenfort, M. S., 20a. Malum, G. P., 65b. Malzahn, R. C., 95a. Mamer, L. M., 121b. Manchester, A. W., 53a. Manchester, J. W., 53a. Manchester, Mrs. M. K., 18a. Mandia, J. W., 47a. Manfredi, J. F., 58a. Manganelli, R. M., 82b. Mangel, M. W., 72b. Mangrum, J. F., 123b. Mangus, A. R., 97a, 100a. Mangus, J. E., 34a. Manhart, V. C., 35b. Maniord, H., 123a. Manis, H. C., 30a. Manke, A. H., 18a. Mankin, J. D., 83a. Manley, F. H., 3a. Manly, P. J., 49a, b. Mann, A. I., VI, 17a, 18a. Mann, J., 61b. Mann, L. K., 13a. Mann, T. J., 90a. Manning, C. W., 123a. Manning, H., 141b. Mansfield, E. A., 61b.

Mansfield, M. E., 33b, 34b. Mansfield, O. W., 36b. Manson, P. W., 65a. Manuel, M. L., 44a. Manus, L. J., 135a. Manville, R. H., 64a. Manwiller, A., 117b. Mapes, R. A., 78b. Mappus, W. A., 117b. Marbut, S. A., 116b. March, R. B., 14a. March, R. P., 85b. Marchán, F. J., 113a. Marchant, W. H., 27a. Marcovitch, S., 121a. Marcus, J. S., 57b. Marders, W. G., 9a. Marek, J. W., 91b. Margerum, E. P., Jr., 43a. Margolf, P. H., 111b. Marin, R., 61b. Mariñelarena, R., 113b. Marion, E. Y., 56a. Marion, J. E., 61b. Marion, P. T., 127a. Mariota-Trías, F., 113a. Marix, C. J., 50b. Markland, B. C., 5b. Marks, Mrs. E. K., 142a. Markus, R., 138b. Markuson, M. J., 57b. Markwardt, E. D., 86a. Marland, R. E., 18a. Marlatt, A. L., 45a. Marley, H. L., 37a. Marr, J. C., 12a. Marra, G. G., 138b. Marschall, W. I., 124b. Marsden, D. H., 56a. Marsh, Mrs. A. B., 78b. Marsh, A. W., 107b. Marsh, E. S., 85a. Marsh, G. L., 9b. Marsh, H., 75a. Marsh, R. F., 57b. Marsh, R. S., 138b. Marsh, V. L., 4b. Marshall, A. P., 73b. Marshall, C. E. (Mo.), 73a. Marshall, C. E. (Okla.), 104a. Marshall, D. A., 30a. Marshall, D. G., 66b. Marshall, G. B., 103a. Marshall, G. E., 36a. Marshall, J. G., 49a. Marshall, L. A., 23b. Marshall, M., 132b. Marshall, R. B., 102a. Marshall, R. E., 59a. Marshall, S., 7b. Marshall, S. P., 21b. Marshall, W. H., 65b. Marston, B. W., 144a. Marston, G. A., 57a. Martell, E. R., 36b.

Martin, A. F., 54b. Martin, C. H., 105b. Martin, D., 117b. Martin, D. F., 124b. Martin, E. A., 53b. Martin, E. C. (Mich.), 60b. Martin, E. C. (Tex.), 124b. Martin, E. L., 102b. Martin, E. W., 55a. Martin, G., 124b. Martin, Mrs. G. M., 124b. Martin, I. R., 2a. Martin, J., 61b. Martin, J. A. (S. C.), 116b. Martin, J. A. (Tenn.), 120b. Martin, J. C., 10a. Martin, J. H., 37b. Martin, J. N., 39a. Martin, J. P., 14b. Martin, J. W., 30a. Martin, L. R., 91b. Martin, M., 116b. Martin, Mrs. M. V., 33a. Martin, P. F., 4b. Martin, R. D., 87a. Martin, R. H., 115b. Martin, S. C., 72a. Martin, T., 125a. Martin, T. T., 72a. Martin, V. G., 69a. Martin, W. E., 9b. Martin, W. H. (Conn.), 19b. Martin, W. H. (Kans.), 44a. Martin, W. H. (N. J.), IV, V, 80a, 81a, 82a. Martin, W. J., 49b. Martin, W. P., 96a, 99a. Martin, W. R., Jr., 72b. Martin, W. Z., 27a. Martindale, E. D., 69b. Martinelli, M., 36b. Martinez, J., 113a. Martinez, M., 113a. Martinez-Acevedo, R., 112b. Martinez-Picó, J. L., 112a. Martorell, L. F., 113a. Marvin, J. W., 130a. Marvin, K. R., 41b. Mason, C. L., 8a. Mason, F. H., 55a. Mason, H. G., 78b. Mason, I. C., 53b. Mason, L., 125a. Mason, M. A., 36b. Mason, P. W, 7a. Massey, A. B., 131b. Massey, E. E., 69a. Massey, L. B., 116a. Massey, L. M., 88a. Massey, W. C., 69a. Massie, G. E., 33a. Mast, C. C., 131a. Masten, M. A., 36b. Matelski, R. P., 76a.

Matheis, H. H., 66a.

Mather, G. W., 67a. Mather, R. E., 80b. Mather, W. G., 109b. Mathey, W. J., Jr., 13a. Mathews, A. C., 115a. Mathews, G. R., 131a. Mathews, J. B., 3a. Mathews, R., 48b. Mathewson, C., 22a. Mathis, W. T., 19a. Matisheck, P. H., 6b. Matrone, G., 91a. Matson, W. E., 135b. Matsumoto, H., 29a. Matsusaka, Y., 29a. Matsushima, J., 76a. Matterson, L. D., 19a. Matteson, E. S., 71a. Matthews, C. M., 80a. Matthews, D. C., 29b. Matthews, D. J., 128a. Matthews, E. J., 120b. Matthews, E. M., 133b. Matthews, J. L., 124b. Matthews, J. W. (III.), 32b, 33b. Matthews, J. W. (Ky.), 47a. Matthews, M. L., 34a, 36b. Matthews, S., 25b. Matthews, W. A., 55b. Matthias, V. W., 143a. Matthysse, J. G., 86b. Mattick, J. F., 54b. Mattison, J. R., 115a. Mattox, J. D., 92a. Mattson, A. M., 89a. Mattson, H., 96a. Mattus, G. E., 133a. Matzek, B. L., 95b. Mauch, A., 60a. Mauger, H. M., Jr., 98b. Maughan, D., 136a. Maughan, J. H., 129a. Mauldin, J. F., 26a. Maunder, A. H., 77b. Maunier, J., 17b. Maupin, C. J., 93a. Mausteller, J. E., 59b, 62b. Maw, A. J. G., 111b. Mawby, R. O., 35b. Maxie, E. C., 37b. Maxfield, S. E., 141b. Maxon, M. A., 119a. Maxton, J. L., 132a. Maxwell, D., 68a. Maxwell, E. G., 77b. Maxwell, N. P., 127b. Maxwell, R. E., 39b. Maxwell, U. S., 73b. May, E. C., 127b. May, J. T., 2a. May, P., 59a. May, W. T., 69b. Mayer, D. T., 71a. Mayer, I. D., 36a.

Mayer, M. (Colo.), 15b. Mayer, M. (Mich.), 63b. Mayes, Mrs. R. M., 120b. Mayeux, M., 50b. Mayfield, Mrs. H. L., 74b. Mayhew, R. L., 51b. Mayhew, T. C., 9a. Maynard, L. A., 84a, b. Mayo, H. H., 34b. Mayo, S. C., 93a. Mayoral-Reinat, A., 112b. Mayoue, G. C., 96a. Mays, D. W., 52a. Mayton, E. L., 3b. Mazia, D., 73b. Mazurak, A. P., 76a. McAdams, W. N., 116a. McAdory, I. S., 3a. McAfee, T. E., 123a. McAllister, D. R., 128a. McAllister, Mrs. M. L., 92b. McAllister, W. T., 20b. McAlpin, N., 122b. McAlpine, M. I., 25b. McArdle, F. J., 6b. McArthur, J., 103b. McArthur, L. J., 118b. McArthur, W. C., 124a. McAuliffe, C. D., 90a. McBee, J. A., 3a. McBee, R. H., 74a. McBirney, S. W., 16a. McBride, C. G., 97a, 100a. McBryde, Mrs. L. C., 51a. McCabe, R. A., 143a. McCain, C. E., 54b. McCain, F. S., 1a. McCain, J. A., 42a. McCain, M. D., 72a. McCaleb, S. B., 90a. McCall, L. J., 126b. McCall, T. M., 67b. McCall, W. W., 22b. McCalla, T. M., 76a. McCamey, B. F., Jr., 18b. McCammon, J. F., 45b. McCampbell, C. W., 43a. McCants, C. B., 90a. McCarthy, D. J., 57a. McCartney, M. G., 111b. McCarty, E. R., 94b. McCarty, J. W., 118a. McCaskill, G. A., 43b. McCay, C. M., 84b. McClanahan, M. M., 121b. McClary, C. F., 137a. McClay, D. R., 110a. McClead, R., 136a. McClelland, A. C., 10a. McClelland, B. E., VII, 74b. McClelland, J., 5b. McClelland, J. B., 40a. McClelland, J. E., 38b. McCleskey, C. S., 49b. McClintock, J. A., 37b.

McCloud, D. E., 21a. McClung, A. C., 90a. McClung, M. R., 6a. McClure, E. E., 103a. McClure, T. T., 59a. McCollum, J. P., 33b. McCollum, W. H., 47a. McColly, H. F., 60b. McComas, P. S., 47a. McComb, A. L., 40b. McCombs, C. L., 93a. McCone, W. C., 118a. McConnell, H. S., 55a. McCord, J. L. E., 110a. McCordic, Mrs. M. P., 141b. McCorkle, C. O., 8b. McCormick, Mrs. E., 75a. McCormick, F. B., 100a. McCormick, J. A., 78a. McCormick, J. B., 4a. McCormick, L. E., 72a. McCormick, L. L., 49a. McCormick, W. C., 27a. McCown, J. D., 117a. McCoy, E. F., 140a. McCoy, H. E., 120a. McCoy, J. E., 137b. McCoy, J. H., 44a. McCoy, V. L., 132b. McCracken, E. E., 38b. McCraine, S. E., 49b. McCraney, K. M., 25b. McCraney, R. J., 25a. McCrary, C. M., 64b. McCrary, L., 120a. McCrary, O. F., 92b. McCreery, R. A., 134a. McCreight, M. G., 77a. McCrory, E. R., 49a. McCrory, H. F., 70a. McCrory, S. A., 118b. McCroskey, R. M., Jr., 71b. McCubbin, E. N., 22a. McCuen, G. W., 97a, 100a. McCulloch, H. R., 110a. McCullough, C. E., 37a. McCullough, H. A., 89a. McCullough, H. E., 33a. McCullough, W. E., 127a. McCully, W. G., 125b. McCurdy, J. A. (Pa.), 110a. McCurdy, J. A. (Wash), 137b. McDade, R. C., 122a. McDaniel, Mrs. A. M., 47b. McDaniel, A. T., 7b. McDaniel, B. S., 73b. McDaniel, E. I., 117a. McDaniel, J. A., 50a. McDaniel, J. G., 33b. McDaniel, W. E., 65a. McDavitt, E. A., 47a. McDermid, J. T., 108a. McDermott, K., 71b. McDermott, R. E., 72a.

McDevitt, J. B., 50b. McDiarmid, E. W., 67b. McDill, J., 116b. McDonald, B. B., 121b. McDonald, C. W., 39a. McDonald, F. J., 53b. McDonald, J. L., 52a. McDonald, M. (Iowa), 38a, McDonald, M. (Ohio), 97a. McDonald, M. H., 94a. McDonnell, A. D., 19b. McDougal, O. J., 76a. McDougall, G. A., 110b. McDougle, H. C., 73a. McDow, J. J., 102b. McDowell, A., 144a. McDowell, C. H., 127b. McDowell, E., 110b. McDowell, Mrs. M. S., 110b. McDuffee, M., 55a. McDuffie, V. A., 103a. McElroy, J. J., 9a. McElwee, E. W., 69b. McFadden, E. S., 123a. McFarland, B. W., 19a. McFarland, M. G., 37a. McFeely, H. F., 109b. McFerran, J., 7b. McGalliard, A., 119b. McGaugh, V., 44b. McGaughey, J. L., 33a. McGeorge, W. T., 5a. McGibbon, W. H., 142b. McGibney, I., 118b. McGill, D. P., 76a. McGilliard, P. C., 102a. McGinnis, J., 137a. McGinnis, N. M., 125a. McGlothlin, M. P., 32a. McGovran, E. R., II. McGowan, J. E., 24a. McGraw, E. L., 2a. McGregor, J. A., 21a. McGrew, C. D., 96b. McGrew, M. E., 110b. McGrew, S. B., 109a. McGuire, H. S., 48b. McHan, P., 121b. McHaney, J. G., 124a. McHatton, T. H., 25b. McHenry, S. L., 20a. McIlrath, W. J., 125b. McIlroy, W. W., 124a. McInnis, S. R., 124a. McIntire, H. R., 57b. McIntire, S. C., 53a. McIntosh, D. C., VII. McIntosh, M., 28b. McIntosh, O., 89b. McIntosh, R. W., 59b. McIver, J., 92b. McJimsey, H., 41a. McKain, W. C., Jr., 19b. McKay, G. R., 66b.

McKay, H. C., 29a. McKay, K. G., 12a. McKean, A. S., 51a. McKee, C., V, 73a. McKee, E. R., VII. McKee, K. L., 5a. McKee, M. A., 33a. McKellar, E. K., 15a. McKenzie, B. A., 36a. McKenzie, F. F., 104a. McKenzie, J. A., 20a. McKenzie, M. A., 56b. McKenzie, M. C., 116a. McKenzie, T., 140a. McKercher, D. G., 13a. McKewen, J. S., 69b. МсКеу, В. V., 33a. McKibben, E. G., 2a. McKibben, G. E., 34b. McKibben, J. S., 71b. McKiel, F. A. B., 84b. McKinley, M., 41a. McKinney, A., 9b. McKinney, F. E., 44b. McKinney, G. J., 48a. McKinney, W. H., 27b. McKinnon, J. C., 15b. McKinsey, J. W., 71b. McKitrick, J. L., 47b. McKittrick, E. J., 144a. McKnight, W. R., 54b. McLaren, B., 136a. McLaren, J. B., 120a. McLaughlin, A. L., 68b. McLaughlin, F. A., 56b. McLaughlin, F. W., 90a. McLaughlin, Mrs. H. F., 80a. McLaughlin, J. C., 94b. McLean, D. M., 136b. McLean, E. O., 6a. McLean, F. T., 133b. McLearen, C. S., 132a. McLendon, H. S., 22b. McLendon, W. F., 26b. McLeod, J. H., V. VI, 119a, 121a. McLinn, M., 118a. McLoughlin, N., 118b. McMahan, J. E., 122a. McMahon, G. E., 66a. McMahon, H. R., 101a. McMeekin, A., 20a. McMichael, C. W., 49a. McMillan, E. M., 45a. McMillen, J. A., 51b. McMillen, R. W., 90a. McMiller, P. R., 67a. McMullan, T. L., 25a. McMullen, J. L., 143b. McMullen, K. S., 22a. McMurray, S. F., 119a.

McMurry, Mrs. E., 88b.

McNamara, R. L., 73a.

McNair, R. D., 115b.

McNall, P. E., 140b.

McNaughton, E. B., 55b. McNeal, F. H., 74a. McNeal, X., 7a. McNeely, J. G., 124a. McNeil, A., 120b. McNeil. C. W., 135b. McNelly, C. L., 65b. McNey, K. M., 16b. McNulty, J. B., 65a. McNutt, E. J., 68a. McNutt. S. H., 142b. McPhaul, M. E., 25b. McPherson, W. W., 92a. McPheters, M. R., 103a. McQuesten, I., 106b. McRae, Q., 121b. McReynolds, E. C., 121a. McReynolds, F. L., 36b. McSpadden, B. J., 122a. McSwain, C. Z., Jr., 90a. McSwain, H. E., 132b. McTeer, F. D., 121a. McVay, F. E., 93b. McVey, W. M., 38a. McWain, P., 94b. McWhorter, F. P., 105a. McWhorter, J. C., 69a. McWilliams, R. M., 39a. Mead, S. W., 11a. Meade, F. M., 7b. Meader, A. L., 48b. Meader, E. M., 80b. Meador, S. D., 103a. Meadows, M. W., 89a. Meahl, R. P., 111a. Means, E., 44a. Means, R. H., 70b. Means, T. M., 34b. Mears, H. M., 133b. Mecartney, J. L., 111a. Mech, S. J., 135b. Mechling, G. S., 100b. Medlen, A. B., 123b. Medler, J. T., 140a, 141a. Meeboer, L. G., 143a, Meek, H. B., 87b. Meek, P., 119a. Meek, W. E., 70b. Meeker, C. R., 71b. Meekma, A. M., 124a. Meenach, C. T., 135b. Meenen, F. E., 46b. Meenen, H. J., 6b. Megee, C. R., VI, 59a. Mehlich, A., 90b. Mehren, G. L., 8b. Mehrhof, N. R., 22b. Meiners, J. P., 136b. Meiser, J. A., Jr., 60a. Meiss, A. N., 19a. Meites, J., 63b. Melampy, R. M., 39a. Melaven, A. D., 120a. Melchers, L. E., 43b. Meldrum, H. R., 38b.

Melgaard, K., 83a. Mellor. J. L., 14b. Meloche, G. L., 141b. Melsted, S. W., 31a. Melton, R. E., 110a. Mendall, H. L., 53b. Méndez, F., 113a. Menefee, E. R., 38b. Menefee, S. G., 31b. Menke, H. F., 135b. Mentzer, R. B., 60a. Menusan, H., Jr., 111b. Menzies, J. D., 137a. Mercado, F. R., 29b. Mercer, F., 102a. Mercer, J. T., 26b. Mercer, R. D., 74a. Merchant, C. H., 53a. Merchant, I. A., 42a. Merchant, J. D., 130b. Mericle, L. W., 59a. Merilan, C. P., 71a. Merkle, F. G., 108a. Merkle, J., 123b. Merriam, O. A., 58a. Merrick, C. P., 55a. Merrifield, M., 103a. Merrill, E. O., 53a. Merrill, H. J., 109b. Merrill, J. F., 43b. Merrill, J. W., 40a. Merrill, L. B., 127a. Merrill, L. G., Jr., 60b. Merrill, R. A., 67a. Merrill, R. W., 30b. Merrill, T. A., 136b. Merrow, S. B., 131a. Mertz, E. T., 35a. Merwin, H. D., 22b. Merwin, R. T., 19a. Messenger, P. B., 8a. Messenger, V., 102b. Messersmith, L. M., 30a. Messinger, E., 136a. Metcalf, H. N., 75a. Metcalf, R. L., 14a. Metcalf, W., 9b. Metcalf, Z. P., 91b. Metcalfe, D. S., 38b. Meteer, J. W., 100a. Metze, Mrs. M. B., 131a. Metzger, E. J., 77b. Metzger, H. B., 53a. Metzger, H. J., 80a, b. Mewhinney, N. S., 8b. Meyer, A. R., 54b. Meyer, B. H., 121b. Meyer, B. S., 96a, 99b. Meyer, D. B., 63b. Meyer, E. M., 44b. Meyer, F., 113b. Meyer, F. W., 19b. Meyer, H. A., 110a. Meyer, J. R., 70b. Meyer, O. C., 61b.

INDEX OF NAMES

Meyer, S. L., 120. Meyer, T. O., 134b. Meyer, W., 46b. Meyer, W. P., II. Meyle, W. H., 107b. Michael, H. T., 127b. Michael, R., 126b. Michael, R. D., 132a. Michaelson, L., 128b. Michaud, H., 36b. Michelbacher, A. E., 9a. Mick, A. H., 4b. Mick, L. K., 4b. Mickel, C. E., 65b. Mickey, A. B., 144b. Mickey, G. H., 51b. Mickle, G. T., 16a. Middlebrook, W. T., 64a. Middlebush, F. A., V, 70a. Middlekauff, W. W., 9a. Middleton, C., 55b. Middleton, E. B., 124a. Middleton, G. K., 90b. Middleton, J. T., 14b. Middleton, T. H., 49a. Middleton, W. R., 4b. Midforth, M. E., 72b. Midgley, A. R., 130a. Midkiff, V. C., 48b. Mielke, J. L., 120a. Mikell, J. J., 51a. Mikkelsen, D. S., 10b. Milbrath, J. A., 105a. Miles, I. E., 68a. Miles, J. F., 115b. Miles, K. A., 53b. Miles, S. R., 34a. Miley, D. G., 70b. Millán-Sambolín, J. A., 112b. Millard, C. V., 60a. Miller, A., 103a. Miller, A. H., 140b. Miller, A. J., 133b. Miller, A. V., 19a. Miller, B., 41a. Miller, B. S., 45b. Miller, C. D., 28b. Miller, C. E., 95a. Miller, C. I., 36b. Miller, C. J., 77a. Miller, D., 63b. Miller, D. C., 62b. Miller, D. E., 15a. Miller, D. F., 98b, 100a. Miller, E., 129a. Miller, E. A., 123a. Miller, E. C., Jr., 34b. Miller, E. E. (Okla.), 104b. Miller, E. E. (Wis.), 140a. Miller, E. J., 59a. Miller, E. V., 90b. Miller, F., 71b. Miller, G., 59b. Miller, G. D. (Kans.), 45b. Miller, G. D. (La.), 50a.

Miller, G. W., 97a. Miller, H. F. (Ky.), 46a. Miller, H. F. (Tex.), 124b. Miller, H. N., 21a. Miller, I. H., Jr., 94b. Miller, J. (Ga.), 26b. Miller, J. (La.), 51b. Miller, J. A., 99a. Miller, J. C. (La.), 51a. Miller, J. C. (Tex.), 123b. Miller, J. H. (Fla.), IV, 21a. Miller, J. H. (Ga.), 25b. Miller, J. H. (Mo.), 71b. Miller, J. I., 84b. Miller, J. N., 99a. Miller, J. P., 137a. Miller, J. W., Jr., 22a. Miller, K. P., 67b. Miller, L. B., 31a. Miller, L. F., 109b. Miller, L. I., 133a. Miller, L. L., 92a. Miller, M., 41a. Miller, M. A., 13b. Miller, M. B., 45a. Miller, M. E., 135b. Miller, M. M., 66a. Miller, M. R., 78a. Miller, P. A. (Calif.), 13b. Miller, P. A. (Iowa), 38b. Miller, P. A. (Mich.), 62b. Miller, P. E., 64a, 65b. Miller, P. R., 130a, b. Miller, P. W., 105a. Miller, R. C. (Ky.), 47a. Miller, R. C. (Ohio), 97a. Miller, R. C. (Oreg.), 106b. Miller, R. C. (Pa.), 109a. Miller, R. D., 10b. Miller, R. S., 125a. Miller, S. R., 53a. Miller, T. R., 60a. Miller, V. J., 78a. Miller, V. L., 135a. Miller, W. A., 43b. Miller, W. D., 92b. Miller, W. L., 118a. Miller, W. M., 143a. Milliff, J. H., 126a. Milligan, C. H., 129a. Millikan, D. F., 71a. Milliken, T. H., 49a. Millikin, S. O., 97a. Milliron, H. E., 20a. Mills, J. F., 123a. Mills, M. E., 79a. Mills, P. J., 49b. Mills, R. A., Jr., 92a. Mills, W. C., 25a. Mills, W. D., 88a. Mills, W. R., 109a. Millsap, H. H., 105a. Milne, C. G., 125a. Milne, F. J., 17a. Milne, H. B., 135a.

Milner, M., 45b. Milton, D. W., 121b. Milton, R. H., 119a. Milward, J. G., 142a. Mims, M., 51b. Mims, W. C., 69a. Minden, M. B., 106b. Miner, F. D., 7a. Miner, G. I., 56b. Miner, M. L., 129b. Minges, P. A., 12a. Minnis, Mrs. G. S., 52b. Minnum, E. C., 18b. Minnum, L. P., 18a. Minor, C. O., 51a. Minor, W. A. IV. Minteer, C. C., 77a. Mintmier, E. A., 110a. Mintz, C. S., 92b. Miracle, Mrs. I. P., 7b. Miranda, L., 113b. Mirone, L., 25b. Mischke, B. B., 15b. Mishler, E., 61b. Misner, E. G., 86a. Mitchell, A., 77b. Mitchell, A. E., 62a. Mitchell, C. C., 76b. Mitchell, D. R., 140b. Mitchell, E. H., 139b. Mitchell, F. T., 68a. Mitchell, G. A., 108a. Mitchell, H. H., 31b. Mitchell, H. L., 43b. Mitchell, H. S., 58a. Mitchell, J. B., 73a. Mitchell, J. H., 115b. Mitchell, L., 121b. Mitchell, M. P., 35b. Mitchell, S., 2b. Mitchell, T. B., 91b. Mitchell, T. F., 55b. Mitchell, W. A., 58a. Mitchell, W. C., 28a. Mitchell, W. H., 20a. Mitcheltree, W. A., 82b. Mitten, H. L., 97a. Mixner, J. P., 80b. Mixon, A., 27a. Miyake, I., 28b. Mochrie, R. D., 18a. Moe, D. L., 118b. Moeller, A. N., 44a. Moeller, F. M., 18b. Moffett, J. O., 16a. Moffie, D. J., 92a. Moffitt, E. L., 109b. Moffitt, J. G., 123b. Mogford, J. S., 123a. Mogren, E. W., 16a. Mohler, M. A., 38b. Mohler, M. T., 34b. Mohn, J. W., 57b. Mohr, H. C., 125b. Moldenhauer, C. W., 117b.

Molenaar, A., 135b. Molinary, E., 113b. Moll, T., 142b. Moncrief, J. B., 126b. Mondart, C. L., 50b. Mondart, C. L., Jr. 49a. Mondy, N., 87b. Monhaut, G., 37a. Monosmith, R. O., 69a. Monroe, C. F., 99b. Monroe, C. G., 106a. Monroe, H., 139b. Monroe, J. B., 116a. Monroe, M., 72b. Monroe, M. M., 53b. Monroe, R. A., 122b. Monroe, R. J., 93b. Monroe, W. E., 49a. Monroe, Z., 47b. Monson, O. W., 74b. Montelaro, J., 51a. Montfort, P. T., 124b. Montgomery, B. E., 36a. Montgomery, G., 44a. Montgomery, J., 87b. Montgomery, J. P., 50a. Montgomery, L. R., 137b. Montgomery, R. W., 2a. Montgomery, T. M., 68b. Mooar, Mrs. M., 59a. Moodie, C. D., 134a. Moody, E. G., 35b. Moody, G. S., 132a. Moody, J. E., 132b. Moody, R. B., 73b. Moody, R. E., 34a. Moomaw, L., 96b. Moon, H. T., 110a. Moon, Mrs. P. C., 25b. Moore, A. N., 88a. Moore, A. V., 124a. Moore, B. W., 138a. Moore, C. A., 4b. Moore, C. B., 86a. Moore, C. H., 38b. Moore, C. R., 6b. Moore, E. L. (Miss.), 69b. Moore, E. L. (N. C.), 91b. Moore, E. M., 98a Moore, G. C., 4b. Moore, G. R., 63b. Moore, H. C. (Mich.), 61a. Moore, H. C. (N. H.), 79b. Moore, H. E., Jr., 88a. Moore, H. L., 133a. Moore, H. R. 97a, 100a. Moore, J. C. (Ala.), 2b. Moore, J. C. (Oreg.), 107b. Moore, J. D., 142b. Moore, J. E., 54a. Moore, J. F., 136b. Moore, J. G., 142a. Moore, J. L., 91a.

Moore, J. M., 62b.

Moore, J. S., 22b.

Moore, K., 80b. Moore, L., 83a. Moore, Mrs. L., 103a. Moore, M., 32a. Moore, M. B., 66b. Moore, M. E., 133b. Moore, O., 136a. Moore, P. J. (Mont.), 74b. Moore, P. J. (W. Va.), 139b. Moore, R. (Tenn.), 121b. Moore, R. (USDA), IV. Moore, R. C., 133a. Moore, R. P., 90b. Moore, R. R., 129a. Moore, R. W., 121a. Moore, T., 4a. Moore, W. A., 43a. Moore, W. J., 125b. Mooring, D. C., 103b. Moorman, R. P., 119b. Moosberg, C. A., 8a. Moose, J. E., 78a. Moquet, E., 19b. Moran, A. B., 47a. Moran, C. H., 52a. Moree, R., 135b. Moreland, C. C., 50b. Moreland, C. F., 49b. Morell, B., 112a. Moreng, R. E., 94b. Morey, D. D., 21a. Morey, L., 30a. Morford, V. J., 40a. Morgan, A., 25a. Morgan, Mrs. A. F., V, 9b. Morgan, A. H., 120b. Morgan, B. (Iowa), 40a. Morgan, B. (W. Va.), 138a. Morgan, B. F., Jr., 132a. Morgan, B. S., 142b. Morgan, C. G., 68a. Morgan, C. L., 116b. Morgan, D. H., VII. Morgan, D. T., Jr., 54a. Morgan, Mrs. E., 106b. Morgan, J. W., 91b. Morgan, L. W., 27b. Morgan, M., 132b. Morgan, M. E., 18a. Morgan, N. B., 121a. Morgan, O. D., 54a. Morgan, O. K., 70b. Morgan, Q. M., 124a. Morgan, R. A., VII. Morgan, R. M., 35a. Morgan, T. W., 115a, 116a. Morgan, W. E., 14a. Morgan, W. L., 110b. Moriarty, J. H., 38a. Morley, A. C., 102b. Morley, Mrs. R. D., 2b. Morofsky, W. F., 60b. Morr, M. L., 61b. Morrell, E., 121b. Morrill, C. C., 33b.

Morrill, J. L., IV, 64a. Morris, A., 88b. Morris, A. J., 128a, b. Morris, B. R., 57a. Morris, C. E., 62b. Morris, E. F., 103a. Morris, F. B., 86b. Morris, H. D., 24a. Morris, H. E., 74a. Morris, H. F., 127b. Morris, J. U., 72a. Morris, L. L., 13a. Morris, L. S., 129b. Morris, M. P., II. Morris, M. R., 76a. Morris, R. J., 78a. Morris, T. B., 93a. Morris, T. V., 4b. Morris, W. E., 64a. Morrison, D. J., 137b. Morrison, E. G., 119b. Morrison, E. M., 128b. Morrison, F. B., 84b. Morrison, H. B., 47a. Morrison, H. E., 105b. Morrison, I. G., 36a. Morrison, J. E., 14a, 16a. Morrison, K., 134a. Morrison, L. S., 101b. Morrison, R. A., 135a. Morrison, R. D., 3a. Morrison, S. H., 24b. Morrison, S. M., 17a. Morrison, T. C., 48b. Morrison, W. R., 111b. Morrissey, L. G., 141a. Morrow, A. I., 94b. Morrow, E. B., 93a. Morrow, E. R., 65b. Morrow, J. L., 34a. Morrow, K. S., 79b. Morrow, R. R., Jr., 85b. Morrow, T. S., 3b. Morse, E. V., 143a. Morse, H. H., 99a. Morse, R. W., 105a. Morse, W. J., 80a. Mortensen, E., 127b. Mortensen, M., 39b. Mortenson, W. P., 140b. Mortimer, Mrs. I. R., 142a. Mortimer, W., 129a. Mortland, M. M., 31a. Morton, C., 89b. Morton, Mrs. G. S., 56a. Morton, M., 47b. Mosby, H. S., 131b. Moschette, Mrs. D. S., 51a. Moschler, W. W., 131a. Moscoso, C. G., 113a. Moseman, J. G., 91b. Moser, A. M., 116b. Moser, F. Y., 128b. Moser, H. E., 87b. Moser, M. S., 92b.

Moser, R., 106b. Moser, R. E., 57a. Moser, R. E., Jr., 133a. Moses, H. E., 38a. Moses, P. J., 22a. Moses, T., 125b. Mosher, H. E., 72b. Mosher, M. M., 136a. Moss, L. C., 17a. Moss, W. A., 30b. Moss, W. F., 120b. Mote, D. C., 105b. Motheral, J. R., 124a. Mott, G. O., 34a. Motts, G. N., 60a. Moulton, F. L., 141a. Moulton, J. E., 62a. Mount, J. T., 97b. Mount, M. M., 54a, 55a. Mountney, G. J., 122a. Mowery, A. S., 110a. Mowery, I. C., 123a. Mowery, R. W., 32b. Moxley, H. F., 59a. Moxon, A. L., 118a. Moyer, D. D., 98b. Moyer, F. L., 118a. Moyer, J. C., 89a. Mozingo, H. N., 120a. Mrak, E. M., 9b. Muckenhirn, R. J., IV, 139a, 142b. Mucks, A. M., 139a, 141a. Mudge, C. S., 11a. Mudge, H. L., 44a. Mueller, A. G., 32a. Mueller, C. D., 45b. Mueller, G. G., 61b. Mueller, G. P., 120a. Mueller, W. S., 56b. Muenscher, W. C., 85a. Muery, H. O., 49a. Muhrer, M. E., 71a. Muirheid, B. F., 32b. Muldrow, M. W., 6a. Mulhern, H., 107a. Mull, L. E., 21b. Mullen, C. W., 43a. Mullett, R. P., 121a. Mullin, R. S., 133b. Mulvaney, D. L., 31a. Mulvey, R. R., 34a. Muma, M. H., 77a. Mumford, C. W., 20a. Mumford, D. C., 105b. Mumford, M., 48a. Mummert, H. B., 16a. Mummery, D., 37a. Muncie, J. H., 59a. Mundie, E. W., 132b. Mundinger, F. G., 89a. Mundt, E. E., 41a. Mundt, J. O., 120a. Munford, J. K., 107a. Munger, H. M., 88a.

Muñiz, A. I., 113b. Munn, M. T., 90a. Munroe, J. A., 95a. Munsell, R. I., 18b. Munvon, R. W., 12a. Murakami, K., 29b. Murakishi, H. H., 28b. Muratti, J., 112a. Murdock, F. R., 135a. Murley, R. M., 39a. Murneek, A. E., 72b. Murphey, M., 22a. Murphree, L. C., 70a. Murphree, R. L., 119b. Murphy, A. H., 10b. Murphy, E. F., 53b. Murphy, F. P., 57a. Murphy, H. C., 38b, 39a. Murphy, H. F., 101a. Murphy, H. J., 52a. Murphy, J. B., 94b. Murphy, M. M., 27a. Murphy, Mrs. M. N., 37a. Murphy, R. G., 132a. Murphy, R. P., 88a. Murphy, R. R., 111b. Murphy, W. D., 32b. Murphy, W. J., 72a. Murray, A. M., 109b. Murray, C., 121a. Murray, C. C., V, 24a, 25a. Murray, D. L., 60a. Murray, H. C., 136a. Murray, J. A., 32a. Murray, J. M., VI. Murray, M., 125a. Murray, R. A., 54b. Murray, W. G., 39b. Muse, M., 130b. Musgrave, A. B., 57a. Musgrave, M. R., 53b. Musgrave, R. B., 84a. Musgrave, S. D., 31b. Mussehl, F. E., 78a. Musser, A. M., 116b. Musser, H. B., 108a. Muth, O. H., 107b. Mutti, R. J., 32a. Muzik, T. J., II. Myer, M., 88a. Myers, C. A., 138b. Myers, F. E., 22a. Myers, G., 45a. Myers, H. E., 42a. Myers, J. M., 21b. Myers, J. N., 144b. Myers, L. A., 41a. Myers, L. I., 110a. Myers, M., 118a. Myers, M. L., 98a. Myers, M. W., 69b. Myers, R. M., 91a. Myers, W. I., IV, 84a. Myhre, A., 136b. Myler, J. L., 12b.

Myles, M. R., 122b. Mynard, F. H., 32b. Myren, J., 66a. Myrick, D. C., 74b. Myrland, R. H., 142a. Myser, W. C., 99a. Myster, A. M., 133b. Myster, Mrs. G. J., 134a.

N

Nadal, R. A., 112a. Naden, K. D., 13b. Nagel, C. M., 119a. Nageotte, J. C., 109b. Nagle, J. P., 136a. Nagler, M. T., 37a. Nagovsky, M., 37a. Nakagawa, Y., 28b. Nakasone, H. Y., 28b. Nakata, S., 28b. Nalbandov, A. V., 31b. Nally, V. A., 30a. Nance, G. B., 71b. Nason, E., 53a. Nast, C. G., 79a. Naughton, J. J., 28a. Nauheim, C. N., 118b. Nauman, H. D., 71a. Naylor, H. B., 85b. Neal, A. L., 85a. Neal, C. W., 137a. Neal, D. C., 49b. Neal, E. M., 126b. Neal, J. H., 2a. Neal, N. P., 140a, 141b. Neal, O. M., 138b. Neal, O. R., 82b. Neal, R. V., 24b. Neal, R. W., Jr., 55b. Neal, S. L., 125a. Neale, P. E., 83a. Nearn, W. T., 110a. Neas, I., 27a. Neasham, E. W., 50a. Neblett, S., 88a. Neely, Mrs. E. P., 7b. Neely, G. I., 22a. Neely, J., 116a. Neely, J. W., 68a. Neff, C. T., Jr., 137a. Neff, L. F., 44b. Neff, R., 73b. Neidert, M., 88a. Neiswander, C. R., 99a, 100a. Neiswander, R. B., 99a, 100a. Neitzke, C. H., 141a. Neller, J. R., 22b. Nelson, A., 143b. Nelson, A. B., 101b. Nelson, A. G., 86a. Nelson, A. I., 32b. Nelson, B. D., 52b. Nelson, B. H., 124a. Nelson, C. E., 134a.

Nelson, C. I., 95a.

Nelson, D. H., 56b. Nelson, D. I., 77a. Nelson, F. E., 39b. Nelson, G. L., 102b. Nelson, G. R., 19a. Nelson, H., 87b. Nelson, J. A., 74a. Nelson, Mrs. J. B., 66b. Nelson, K. E., 13b. Nelson, K. S., 98a. Nelson, L., 66b. Nelson, L. E., 111a. Nelson, L. V., 61a. Nelson, O. E., 35a. Nelson, O. M., 104b. Nelson, P., 102a. Nelson, P. M., 40b. Nelson, R., 59a. Nelson, R. E., 7b. Nelson, R. H., 59a. Nelson, W. B., 75b. Nelson, W. E., 137b. Nelson, W. L. (N. Y.), 85a. Nelson, W. L. (N. C.), 90b. Nelson, W. L. (Wash.), 134a. Nelson, W. M., 62a. Nelson, W. O., 31b. Nemerow, N. L., 82b. Nervik, O., 118b. Nesbit, W. B., 116b. Nesius, E. J., 47a. Nesset, O. J., 95a. Nestler, R. B., II. Netterville, Mrs. R. F., 52b. Nettles, V. F., 22a. Nettles, W. C., 117a. Nettles, W. T., 125a. Neu, L., 63b. Neubauer, L. W., 11b. Neubert, A. M., 135a. Neugent, M. W., 134a. Neumann, A. L., 31b. Nevens, W. B., 31b. Neville, W. E., 25a. Neville, W. E., Jr., 26a. Nevin, C. S., 91b. New, E. H., 30b. Newark, C., 98a, 100a. Newbill, A. B., 136a. Newcomb, A. W., 65b. Newcomer, J. L., 54a. Newell, G. W., 103b. Newell, I. M., 28a. Newell, J. C., 50b. Newell, L. C., 76a. Newell, P. F., 68a. Newhall, A. G., 88a. Newins, H. S., 22a. Newland, H. W., 59a. Newlander, J. A., 130a. Newlon, W. E., 9b. Newman, G. B., 111b. Newman, J. P., 63b. Newman, J. E., 34a. Newman, K., 87b.

Newman, W. S., III, 131a. Newsom, L. D., 51b. Newsom, S. E., 61b. Newton, C. L., 25b. Newton, I. L., 106a. Newton, J. H., 16a. Newton, Mrs. W., 33a. Neyhart, A., V. Nibler, C. W., 76b. Nicholas, J. E., 110a. Nicholls, W. D., 47a. Nichols, B. C., 119a. Nichols, H. E., 41b. Nichols, J. M., 72a. Nichols, J. R., 120b. Nichols, L. P., 109a. Nichols, M. B., 135a. Nichols, Mrs. M. B., 135a. Nichols, N. B., 123a. Nichols, O., 100b. Nichols, R. A., 83a, b. Nichols, R. E., 143a. Nichols, R. R., 19a. Nichter, A. M., 35b. Nickel, C. H., 38b. Nickel, P., 95b. Nickell, P., 40b. Nickelson, R. S., 43a. Nickens, W. H., 122b. Nickerson, T. A., 11b. Nickerson, W. J., 82a. Niedermeier, R. P., 140b. Niederpruem, M. A., 61b. Nieland, L. T., 22a. Nielsen, H. M., 129b. Nielsen, L. W., 91b. Nielsen, M. J., 66b. Nielsen, R., 128a. Nielsen, V. D., 107a. Nielsen, V. H., 39b. Niesley, J. L., 109b. Niles, A., 5b. Nimer, D. A., 44a. Nipper, W. A., 52b. Nisbet, F. J., 138b. Nishida, T., 28a. Nisonger, J. W., 54b. Niss, H. F., 35a. Nissley, C. H., 82a. Niswonger, H. R., 93a. Niven, T. B., 106b. Nix, A. R., 117a. Noble, C. V., 21a. Noble, I. T., 66a. Noble, L. G, 129a. Noble, L. W., 127b. Nodine, E. H., 57b. Nodland, T. R., 65a. Noer, R. D., 138b. Nokes, H. L., 86a. Nolan, F. L., 111a. Nolan, L. S., 19a. Nolan, O. L., 19a. Noland, E., 61b. Noll, C. J., 111a.

Nolte, J. M., III. Noonan, J., 119a. Noordhoff, L. J., 32a. Norby, O. W., 44a. Nordfeldt, S. B., 28a. Nordin, J. A., 39b. Nordskog, A. W., 42a. Norgaard, U. J., 118a. Norman, B., 18b. Norman, H., 119b. Norris, B. L., 61b. Norris, E. M., 127b. Norris, F. H., 120a. Norris, J. J., 83a. Norris, L. C., 88b. Norris, M. J., Jr., 126b. Northen, H. T., 143b. Norton, C. L., 102a. Norton, E. L., 92b. Norton, J. S., 50b. Norton, L. B., 86b. Norton, L. J., 31a, 32a. Norton, N. A., 110a. Norum, E. B., 95b. Novak, A. F., 21a. Nowlin, R., 102b. Noyes, C. C., 77b. Noyes, H. I., 136a. Nuckolls, W. J., 132a. Nugent, T. J., 133b. Nunnelley, L., 72b. Nusbaum, C. J., 91b. Nutt, G. B., 116a. Nutting, W. B., 57b. Nutty, L. T., 40a. Nybroten, N., 138a. Nye, C., 9a. Nye, E. L., 17a. Nye, I. F., 73a. Nye, W. P., 129b. Nygaard, A., 40a. Nygard, I. J., 67a. Nygren, G., 61b. Nyland, G., 12b. Nylund, F. A., 92a. Nylund, R. E., 66a. Nyman, C. J., 135a. Nymon, M. C., 66a. Nystrom, E., 30b. Nystrom, P. E., 54a. Nystuen, P. A., 94a.

(

Oakberg, E. F., 40b.
Oakes, H., 123a.
Oakes, J. Y., 52b.
Oates, W. J., 102b.
Obenshain, S. S., 131a.
Oberhelman, L. M., 37a.
Oberlelman, C. L., 56b.
Oberle, G. D., 133a.
Obert, J. C., 98a.
O'Brien, H. R., 98a.
O'Brien, M. P., VI.
O'Bryan, E., 41a.

O'Byrne, J. W., 131b. O'Connell, J. E., 91b. O'Connell, J. J., 118a. O'Connor, M., 7b. O'Dell, B. L., 71a. Odell, R. T., 31a. Odell, T. B., 67a. Odland, L. M., 75a. Odland, M. L., 111a. Odland, T. E., 114a. Odom, J. A., 122b. Odom, J. N., 122b. O'Donnell, B. O., 60a. O'Donnell, D. C., 81b. O'Donnell, M. H., 58b. Oertel, E., 51b. Oesterle, O., 35b. Ogden, E. C., 53a. Ogden, W. B., 142a. Ogg, W. E., 39b. Ogier, T. L., 123a. Ogle, R. C., 88b. Ogle, R. E., 122a. Oglesby, W. T., VIII, 51b. Ohling, R. M., 105b. Ohlrogge, A. J., 34a. Ohlson, M. A., 61a. O'Keefe, R. B., 78a. O'Kelley, G. L., Jr., 24b. O'Kelly, J. F., 68a. Okey, R., 10a. O'Knefski, D., 18b. O'Knefski, R. C., 18b. Olano, P., 112b. Oldacre, J., 2b. Olds, D., 47a. Olesiuk, O. M., 58b. Oleson, G. O., 57b. Olivencia, P., 112b. Olivencia, R., 113b. Oliver, A. E., 62b. Oliver, A. W., 104b. Oliver, C. F., 57a. Oliver, Mrs. E. N., 6b. Oliver, G. M., 91b. Oliver, J., 112b. Oliver, J. A., 56b. Oliver, M., 3b. Olmo, H. P., 13b. Olmstead, L. B., 43a. Olmstead, R. H., 109b. Olney, A. J., 48a. Olney, C. E., 114a. Olney, V. W., 107b. O'Loughlin, M. A., 84a. Olsen, Mrs. M. G., 37a. Olsen, O. W., 17b. Olsen, R. W., 22b. Olsen, S. R., 15a. Olson, A. R., 19b. Olson, C., Jr., 76a. Olson, C. C., 94a. Olson, C. R., 67b. Olson, E. A., 77a. Olson, E. H., 27a.

Olson, G. M., 111a. Olson, G. T., 41a. Olson, H. C., 102a. Olson, J. C., 64b. Olson, L. A., 68b. Olson, L. C., 26a. Olson, N. O., 138a. Olson, R. A., 76a. Olson, R. E., 53a. Olson, R. V., 43a. Olsson, G. B., 79b. Olver, E. F., 110a. O'Mara, J. G., 40b. O'Neill, W. J., 135b. Onsdorff, T., 106b. O'Quin, J. M., 50b. Oreutt, E. P., 74a. Oreutt, F. S., 131b. Ordal, Z. J., 32b. Ordoñez, R. M., 112b. O'Reilly, H. J., 108b. O'Reilly, J., 37a. Orem. M. T., 36a. Orford, H. E., 82b. Ormiston, E. E., 31b. O'Rourke, F. L., 62a. Orr, A. C., 77a. Orr, D. M., 102a. Orr, F. H., 1a. Orr, H. P., 2b. Orr. K. J., 28b. Orr, N. L., 92b. Orr. R. W., 42b. Ortega, J. C., 14a. Ortiz, L. B., 113b. Ortiz-Lugo, C. A., 113b. Ortiz-Rigau, M., 112b. Orton, C. R., 138b. Osborn, L. L., 16a. Osborn, R., 75a. Osborne, J. C., 91a. Osgood, E. C., 57b. Osgood, O. T., 68b. Osgood, T. H., VII. Osguthorpe, J. E., 4b. Osmun, J. V., 36a. Osterli, V. P., 12a. Ostvold, H., 67b. Osuna, P., 112b. Oswald, J. W., 12b. Oswalt, E. S., 101a. Oswalt, R. M., 101a. Otero, R., 83b. Otis, C. K., 65a. Otis, J. R., 70a. O'Toole, L., 103a. Otto, M. L., 44a. Otto, R. H., 58a. Ottoson, H., 77a. Ousterout, K., 61a. Outhouse, J. B., 54a. Ouweneel, N. J., 20a. Overbey, D., 3a. Overcash, J. P., 69b. Overcast, W. W., 120b. Overholt, V. L., 97a. Overley, C. B., 43a. Overley, F. L., 136b. Overman, A. J., 107a. Overneck, J. C., 83a. Overstreet, R., 10b. Oveson, M. M., 108a. Owen, C. R., 49a. Owen, J. H., 21a. Owen, S. D., 95a. Owen, W. B., 144b. Owen, W. L., Jr., 124b. Owens, A. B., 54a. Owens, A. E., 134a. Owens, A. L., 114a. Owens, E. W., 30b. Owens. H. B., 25b. Owens, J., 28b. Owens, J. B., 21b. Owens, J. S., 18b. Ownbey, F. M., 134b. Over. Mrs. M. S., 135b.

Paarlberg, D., 35b. Pace. J. E., 21a. Pace. J. V., 68b. Pack, A. B., 19b. Packard, E. S., 53a. Packer, R. A., 42b. Packer, W. S., 82a. Paddock, E. F., 96b, 99b. Paddock, F. B., 42b. Paddock, W. C., 109a. Paden, W. R., 115a. Padgett, I. M., 111a. Padgham, C. C., 104b. Padgham, W. W., 104b. Padilla, Mrs. A. R., 112b. Pagán Carlo, C., II. Page, E., 129b. Page, Mrs. E. C., 58a. Page, E. E., 61b. Page, G. E., 105b. Page, J., 124a. Page, J. B., 123a. Page, J. F., 103b. Page, N. R., 115a. Pahnish, O. F., 4b. Paine, L. S., 124a. Painter, C. G., 84b. Painter, E. P., 11a. Painter, J. H., 107a. Painter, R. H., 44b. Paisley, Mrs. M., 75a. Palafox, A. L., 29a. Palcich, Mrs. V. R., 98a. Pallett, R. B., 141a. Palm, C. E., 86b. Palmer, B. M., 138b. Palmer, E. J., 114a. Palmer, E. L. (Conn.), 18a. Palmer, E. L. (N. Y.), 86a. Palmer, H. S., 28a. Palmer, J. R., 26b.

Palmer, L. M., 92a. Palmer, L. O., 69a. Palmer, P. F., 37a. Palmer, W. H., 97b. Palmer, W. M., 51a. Palmiter, D. H., 89b. Palmquist, E. M., 71a. Palotay, J. L., 17b. Panshin, A. J., 59b. Parcher, L. A., 102a. Parham, A. P., 49b. Parham, S. A., 27a. Park, J. K., 116a. Park, O. W., 42b. Park, R. J., 115b. Parker, B. L., 132b. Parker, C. A., 124a. Parker, E., 95b. Parker, E. M., 26a. Parker, E. R., 14b. Parker, H. E., 35a. Parker, J. E., 107a. Parker, Mrs. K. F., 5a. Parker, K. G., 88b. Parker, L. C., 144b. Parker, L. Y., 93b. Parker, M. M., 133b. Parker, R. E., 18a. Parker, R. L., 44b. Parker, S. J., 8b. Parker, I. E., 109b. Parkinson, L. R., 58b. Parkman, S. B., 27a. Parks, C. E., 45a. Parks, R. R., 12a. Parks, T. H., 99a. Parks, W. R., 40a. Parmelee, C. E., 39b. Parmenter, R. B., 57b. Parnell, E. D., 125b. Parnell, J. V., 134a. Parr, K., 125a. Parris, G. K., 21a. Parrish, A. T., 36b. Parrish, B. D., 135a. Parrish, C. F., 93a. Parrish, D. B., 43b. Parrish, J. R., 1b. Parrott, C. F., 29a. Parrott, E. M., 56b. Parrott, I. M., 104a. Parshall, M., 16a. Parson, V. D., 120b. Parsons, A. P., 41b. Parsons, B. L., 132b. Parsons, C. H., 56b. Parsons, D. W., 139a. Parsons, F. G., 10b. Parsons, G. E., 60a. Parsons, G. S., 120b. Parsons, H. T., 142a. Parsons, J. L. (Mass.), 56a. Parsons, J. L. (N. Dak.), 95a. Parsons, K. H., 140b. Parsons, P. S., 53a.

Parten, H. L., 65b. Partridge, J., 144b. Parvin, D. W., 68b. Parvin, F. W., 21b. Pass, H., 101a. Pasto, J. K., 109b. Pate, V. S. L., 86b. Patrick, C. S., 115a. Patrick, D. L., VII. Patrick, H., 122b. Patrick, R. L., 124b. Patrick, S. R., 90a. Patrick, T. E., 50a. Patten, C. G., 12a. Patten, O. M., 75b. Patterson, A. E., 25a. Patterson, A. V., Jr., 50a. Patterson, F. L., 34a. Patterson, I., 87b. Patterson, J. (Oreg.), 107a. Patterson, J. (W. Va.), 139b. Patterson, J. V., 98a. Patterson, M. E., 90b. Patterson, P. J., 16b. Patterson, R. E. (Pa.), 110a. Patterson, R. E. (Tex.), 123a. Patterson, R. K., 57b. Patterson, R. M., 1a. Patterson, S. A., 17b. Patterson, T. B., 68a. Patteson, G. W., 132a. Pattison, A., 136a. Pattison, F., 44b. Pattison, M., 41a. Patton, A. R., 15b. Patton, B. J., 137a. Patton, F. W., 131b. Patton, Mrs. M. B., 98a, 100a. Patton, R. L., 86b. Patton, S., 109b. Patton, S. T., 142a. Patton, T. H., 110a. Pattyn, M. J., 47b. Paul, A. B., 32a. Paul, M. B., 117a. Paul, P. C., 61b. Paules, L. H., 144b. Pauls, D. E., 135a. Paulsell, L. K., 72a. Paulson, W. E., 124a. Paulus, A. J., 120b. Paur, S., 83a. Paxton, J. A., 97a. Payne, E. M., 15a. Payne, G. F., 74a. Payne, K. T., 34a. Payne, L. C., 42b. Payne, L. F., 45b. Payne, W. K., 27a. Paysinger, J. R., 122b. Peabody, F., 63b. Peabody, G. E., 87a. Peacock, N. D., 119a. Peairs, L. M., 138a.

Pearce, G. W., 89b.

Pearce, M. W., 44a. Pearce, R., 20b. Pearce, S., 116b. Pearson, A. M. (Ala.), 3b. Pearson, A. M. (Fla.), 21a. Pearson, C. C., 104b. Pearson, E., 26b. Pearson, F. A., 86a. Pearson, G. L., 129a. Pearson, H., 142a. Pearson, M. V., 102b. Pearson, N., 61a. Pearson, R. W., 1a. Pease, R. W., 138b. Peavy, A., 2b. Peay, W. E., 129b. Peck, D., 87b. Peck, R. J., 60b, 61b. Pedersen, H. A., 68b. Pedersen, M. W., 128a. Pederson, C. S., 89b. Pedlow, J. T., 52b. Peebles, B. J., 5a. Peech, M., 84a. Peers, Mrs. A., 55b. Peery, C., 132b. Peet, Mrs. E. J., 95b. Peet, L. J., 40b. Peevy, W. J., 49a. Pegues, M. E., 117b. Peikert, F. W., 53a. Pelissier, C. L., 12a. Peltier, G. L., 76b. Pelton, W. C., 122a. Peña, I. R., 112a. Pence, M. O., 34a. Pence, R. O., 45b. Pendergrass, W., 119a. Pendergrast, J., 94b. Pendleton, J. D., 131a. Pendleton, J. E., 102a. Pendleton, J. W., 31a. Pendleton, R. A., 107b. Penn, G. J. H., 117a. Penn, M. E., 139b. Penn, R. J., 140b. Pennell, E., 41b. Pennington, R. P., 108a. Pennock, W., 113a. Penny, N. M., 26b. Penquite, R., 42a. Penton, C. A., 77a. Peoples, D. M., 108b. Peoples, I. C., 134b. Peoples, S. A., 13a. Pepin, L., 103a. Pepoon, L., 98a. Pepper, B. B., 81a. Pepper, J. H., 75a. Pepper, J. O., 111b. Percival, G. P., 79b. Percival, W. C., 138b. Pérez, M. E., 113a. Pérez-García, A., 112b. Pérez-Milán, H., 112a.

Perkins, A. T., 43b. Perkins, B., 143a. Perkins, H. F., 24a. Perkins, H. O., 18b. Perkins, J. A., 19a. Perkins, N. L., 33a. Perkins, W. R., 6a. Permenter, Mrs. L. M., 69b. Perregaux, E. A., 18a. Perriello, R. C., 56a. Perry, A. L., 53a. Perry, B. A. (Tex.), 127b. Perry, B. A. (W. Va.), 139b. Perry, C. C., 125a. Perry, E. C., 79a. Perry, E. J., 80b. Perry, E. P., 10b. Perry, F. S., 22a. Perry, J. S., 110a. Perry, M., 129b. Perry, R., 129b. Perry, R. L., 11b. Perry, T. W., 34b. Person, L. H., 91b. Personius, C. J., V, 84a, 87a. Pesek, J. T., Jr., 38b. Peterkin, E. A., 116b. Petermann, R., 103a. Peters, W. A., 65b. Petersen, C., 41a. Petersen, C. F., 30b. Petersen, E. C., 107a. Petersen, G. M., 77a. Petersen, N. M., 66a. Petersen, R. K., 78b. Petersen, W. E., 65a. Peterson, A., 99b. Peterson, A. E., 142b. Peterson, A. H., 89b. Peterson, A. M., 61a. Peterson, A. W. (Wash.), 135a . Peterson, A. W. (Wis.), IV. Peterson, C. E., 41b. Peterson, D. F., 118a. Peterson, D. W. (Calif.), 10b. Peterson, D. W. (Colo.), 15b. Peterson, E. E., 60a. Peterson, E. H., 137b. Peterson, F. D., 46a. Peterson, H. B., 128a. Peterson, J. B. (Ind.), 34a. Peterson, J. B. (Tenn.), 120b. Peterson, K. D., 97a. Peterson, L. C., 88b. Peterson, M. J., 65a. Peterson, M. L., 10b. Peterson, V., 116a. Peterson, V. E., 43a. Peterson, W. H. (S. C.), 115b. Peterson, W. H. (Wis.), 140a. Peterson, W. J., 91b. Petr, F. C., 74a.

Petri, L. H., 46a. Petrides, G. A., 59b, 64a. Petro, J. H., 99a. Petry, L. C., 85a. Pettibone, C. A., 134a. Pettigrove, H. R., 61a. Pettis, A. M., 21b. Petty, H. B., Jr., 32b. Pew, W. D., 5b. Pfadt, R. E., 144a. Pfahl, P. B., 111a. Pfantz, Mrs. E., 118b. Pfau. K. O., 81a. Pfeifer, R. B., 101a. Pfeiffer, W. H., 110a. Pfendler, D. C., 34a. Pflueger, O. W., 110b. Pflug, I. J., 57b. Pflughoeft, H. A., 65b. Pfund, M. C., 87b. Phaff, H. J., 9b. Phagen, C. V., 102b. Phelps, E. L., 66a. Phifer, B., 71b. Phillip, P. F., 28a. Phillippe, M. M., 115b. Phillippe, P. M., 46a. Phillips, A. M., 22a. Phillips, A. M., Jr., 85b. Phillips, B. J., 33a. Phillips, C. A., 11b. Phillips, C. D., 48b. Phillips, C. E., 19a. Phillips, E. S., 87a. Phillips, G. B., 1a. Phillips, G. H., 119a. Phillips, L. L., 7b. Phillips, P. H., 140a. Phillips, R. A., 66b. Phillips, R. E., 41b. Phillips, S. A., 52a. Phillips, T. G., 79a. Phillips, V., 136a. Phillips, W. L., 46b. Phillips, W. S., 5a. Phinney, B. O., Jr., 13b. Phinney, Mrs. J. W., 107a. Phipps, L. J., 32a. Piatt, Mrs. S. C., 58a. Pickard, G. E., 32b. Pickard, I. A., 38b. Pickens, D., 120a. Pickens, J. C., Jr., 42b. Pickett, B. S. (Iowa), 41b. Pickett, B. S. (Tenn.), 121b. Pickett, E. E., 71a. Pickett, R. C., 43a. Pickett, T. A., 26b. Pickett, W. F., 45a. Pickrell, C. U., VI, 4a, 5a. Pierce, C. D., 107b. Pierce, C. W., 109b. Pierce, D. J., 87a. Pierce, E. A., 118a. Pierce, E. S., 56b.

Pierce, R. T., 109a. Pierce, W. H., 92a. Piercy, P. L., 26b. Pierre, W. H., 38a. Pierson, R., 101a. Pietri-Oms, R., 111b. Pifer, E. C., 108a. Pifer, R. W., 96a. Pike, R. L., 111a. Piland, J. R., 90b. Pilchard, E. I., 32b. Pilcher, H., 87b. Pilkey, A. M., 67b. Pillsbury, A. F., 13b. Pinckney, S. M., 117b. Pincomb, E. M., 72a. Pine, W. H., 44a. Piñero, M., 113a. Pingrey, D. R., 68a. Pingrey, H. B., 83b. Pinnell, E. L., 64a. Pinney, P. M., 48b. Pino, J. A., 82b. Pippel, K. R., 4b. Pirazzi de Landrau, Mrs. Y., 113b. Piringer, A. A., 55b. Pirnie, M. D., 59b, 64a. Pirozok, R. P. 17a. Pistor, W. J., 4b. Pittman, D. W., 128a. Plakidas, A. G., 49b. Plank, H. K., II. Plastridge, W. N., 17a. Plath, C. V., 105b. Plath, E., 94a. Platt, C. S., 82b. Platts, F. E., 80a. Plaxico, J. S., 132a. Plice, M. J., 101a. Plonk, M. A., 138b. Plowman, R. A., 36a. Plum, M. M., 76b. Plumb, G. H., 19a. Plumlee, M. P., 122b. Plummer, B. E., Jr., 53a. Plummer, H. A., 53b. Plunkett, O. A., 13b. Podany, J. C., 95a. Poehlman, J. M., 72a. Poelma, L. J., 54a. Poffenberger, P. R., 54b. Pohl, R. W., 39a. Pohlman, G. G., 137a. Poindexter, A. N., 127b. Poindexter, J., 89b. Polchlopek, S. E., 56b. Polivka, J. B., 100a. Polk, R. B., 72a. Pollard, A. L., 120a. Pollard, L. H., 129b. Pollard, W. S., 6a. Pollock, J. B., 142a. Polomski, L. L., 17b. Polson, R. A., 88b.

Pomeroy, B. S., 67a. Pond, G. A., 65a. Pond, J., 9b. Poole, C. F., 29a. Poole, J. L., Jr., 48b. Poole, R. F., III, 115a. Poole, W. D., 50b. Pope, A. L., 140a. Pope, D. T., 93a. Pope, E. V., 85a. Pope, G. W., 48b. Pope, J. P., 78b. Pope, L. S., 101b. Pope, W. K., 29a. Popham, R. A., 96b. Popp, H. W., 109a. Porcher, K. M., 94b. Porter, A. R., 39a. Porter, C. L. (Ind.), 35a. Porter, C. L. (Wyo.), 143b. Porter, C. R., 76a. Porter, C. W., 54b. Porter, H., 129b. Porter, H. C., 131a. Porter, J. A., 63a. Porter, J. P., 87a. Porter, K. B., 126a. Porter, K. O., 30b. Porter, R. H., 15a. Porter, R. M., 83b. Porter, T. W., 64a. Porter, W. F., 53a. Porter, W. F., Jr., 138a. Porter, W. P., 23b. Porterfield, I. D., 138a. Porterfield, J. G., 40a. Portman, R. W., 30a. Posey, W. B., 54a. Post, A. H., 73a. Post, K., 87a. Post, O., 61b. Post, R. L., 95a. Postema, E., 101b. Postlethwait, S. N., 35a. Potas, M. A., 119a. Potgieter, F., 41a. Potgieter, M., 18b. Potash, R. A., 58a. Potter, E. L., 105b. Potter, F. E., 124a. Potter, G. E., 123b. Potter, J. C., 91b. Potter, P. B., 132b. Potts, H. C., 104a. Potts, J. W., 125b. Potts, R. C., 123a. Potts, W. M., 124a. Pou, J. W., 54b. Poulos, P. L., 20b. Poulton, C. E., 104b, 106a. Poulton, Mrs. J. W., 132a. Pound, G. S., 142b. Poundstone, A. B., 48b. Powell, D., 33b. Powell, F. C., 119b.

Powell, J. C., 68a. Powell, J. V., 28a. Powell, M. B., 43a. Powell, R. D., 21a. Powell, W., 89b. Powelson, D., 35a. Powers, J. B., 11b. Powers, J. J., 25a. Powers, M. R., 117a. Powers, W. L., 107b. Prather, E. E., 3b. Prather, R. M., 3b. Prather, W. B., 1b. Pratt, A. D., 99b. Pratt, A. J., 89a. Pratt, H. K., 13a. Pratt, P., 38b. Pratt, R. M., 23a. Prentice, B. N., 36b. Prentice, C. E., 60a. Prentiss, Mrs. S. W., 106b. Presby, H. F., 79a. Prescott, G. W., 59a. Prescott, J. A., 60a. Pressey, Mrs. A. D., 98a. Pressley, E. H., 5b. Preston, A. C., 127b. Preston, J. B., 24a. Preston, L. A., 86a. Preston, Mrs. N. R., 139b. Preston, R. J., Jr., 92b. Preston, R. T., 54a. Prewit, J. D., 124b. Prewitt, C. E., 139b. Prewitt, R. C., 73b. Price, A. A., 126a. Price, B. E., 138b. Price, C. W., 50a. Price, D. A., 127a. Price, E. G., Jr., 111a. Price, F. E., V, VI, 104a, 105b, 106a. Price, H. B., 48b. Price, Mrs. H. H., 98a. Price, J. W., 99b. Price, M. (Ohio), 97b. Price, M. (S. C.), 117b. Price, M. A., 124b. Price, N. O., 131b. Price, O. T., 140b. Price, P. H., 51b. Price, R. B., 70a. Price, R. N., 48b. Price, R. R., 102a. Price, Mrs. S. J., 139b. Price, W. A., 47b.
Price, W. A., 47b.
Price, W. V., 140b. Price, Z. P., 70b. Prickett, G. I., 65a. Pridham, A. M. S., 87a. Prier, J. E., 144b.

Prince, A., 124a.

Prince, A. L., 82b.

Prince, F. S., 79a.

Prince, P. W., 109b. Pringle, W. C., 8a. Pringle, W. R., 119b. Priode, B. M., 131a. Pritchard, A. E., 9a. Pritchard, N. T., 35b. Pritchard, W. R., 67a. Pritham, G. H., 109a. Probst, A. H. C., 34a. Procopio, P. N., 58b. Proctor, R. E., 24b. Proebsting, E. L., 12b. Promersberger, W. J., 95a. Pronin, D. T., 141a. Prosser, D. S., Jr., 23a. Proud. D. M., 88a. Prout, H., 16b. Prouty, C. C., 135a. Prudent, Mrs. I., 98a, 100a. Pruett, H. T., 2a. Pryor, A. E., 103b. Pugh, L. H., 82a. Pugmire, O., 129b. Puhr, L. F., 118a. Pullen, W. E., 53a. Pullig, T., 51b. Pullins, W. E., 117b. Pumphrey, F. V., 78b. Pundt, H., 87a. Purchase, M. E., 86a. Purdy, A. W., 73b. Purdy, D. I., 102b. Purdy, H. R., 96a. Purinton, H. J., 79b. Purkey, D. R., 97a. Purnell, W. F., 31a. Purser, W. H., 117a. Pursley, G. R., 132a. Purvis, A. W., 57a. Purvis, E. R., 82b. Pushee, G. F., 57b. Putala, E. C., 56b. Putnam, H. J., 68b. Putnam, L. S., 99b. Putnam, P. L., 18a. Pyke, W. E., 15a. Pyne, D. K., 18b.

_

Quackenboss, I. E., 82b. Quackenbush, A., 19b. Quackenbush, F. W., 35a. Quackenbush, G. G., 60a. Quaife, E. L., 39a. Quattlebaum, V. K., 117a. Quay, T. L., 91b. Quesenberry, J. R., 75b. Quigley, G. D., 55b. Quimby, D. C., 75b. Quinby, J. R., 126b. Quinlan, L. R., 45a. Quinn, O. B., 50a. Quisenberry, J. H., 125b. Quist, B. B., 66a.

Rabourn, W. J., 35a. Radir, R., 136a. Radloff, D. B., 39a, 42b. Raeder, J. M., 30b. Ragland, C. H., 69b. Ragsdale, A. C., 71a. Ragsdale, E., 25b. Ragsdale, J. M., 71b.

Rahlman, D. F., 11a. Rahn, E. M., 20b. Rainbolt, H. L., 121b. Raines, E. D., 49b.

Rainwater, C. F., 124b. Rainwater, H., 27a.

Raleigh, G. J., 89a. Raleigh, S. M., 108a. Ralston, C. W., 22a.

Ralston, F. A., 74a. Ralston, J. C., 36b. Ralston, N. P., 60a.

Ralston, W. R., 9a. Ramage, C. H., 108a. Ramge, J., 98b. Ramig, R. E., 78b.

Ram1rez-Rivera, A., 112a. Ramfrez-Rivera, F., 112a.

Ramos, J. A., 112a. Rampton, H. H., 106a. Ramsdell, G. E., 52b. Ramser, J. H., 32b.

Ramseur, Mrs. B. B., 94b. Ramsey, F. R., 42b.

Ramsey, R. J., 48b. Ramsour, H. H., 44b. Ramstad, P. E., 85a.

Rand, M. C., 82b. Rand, M. E., 80a.

Randall, A. G., 53b. Randall, E., 50b.

Randall, G. O., 93a. Randall, T. E., 136b. Randel, W. C., 59b.

Randle, S. B., 80a. Randle, E., 45a. Randolph, B. G., 7b.

Randolph, F. H., 86a. Randolph, J. W., 23a.

Randolph, L. F., 85a. Randolph, U. A., 127a. Raney, E. C., 85b. Raney, W. A., 68a.

Rankin, A. D., 17b. Rankin, G. F., 94b.

Rankin, H. W., 27b. Rankin, W. H., 90b. Rann, F. G., 61b.

Ranney, E. S., 5b. Ranney, W. P., 120b. Rappleye, R. D., 54a.

Raski, D. J., 9a. Raskopf, B. D., 120b.

Rasmussen, A. O., 111a. Rasmussen, E. J., 80b.

Rasmussen, K., 118a.

Rasmussen, L. W., 134a. Rasmussen, M. P., 86a. Rasmussen, R. H., 141a. Rasmussen, W. W., 129a.

Ratchford, C. B., 92a. Ratcliff, L., 68b. Ratcliff, R. Y., 52a.

Rath, F. W., 53a. Rathburn, F., 28a.

Rathmell, Mrs. V. K., 81a. Rau, F. A., 123b. Rauch, H., 57b.

Raudabaugh, J. N., 40b. Raulins, R., 143b. Raup, P. M., 140b.

Ravenscroft, V. F., 30b. Rawlings, C. O., 107a.

Rawlings, E. M., 115a. Rawlins, T. E., 10a.

Rawlins, W. A., 86b. Ray, B. W., 31a. Ray, C., 60a.

Ray, H. C., 7b. Ray, J. D., Jr., 68b.

Ray, K. R., 69a. Ray, L. L., 127a.

Ray, M. L., 6a. Ray, W. W., 76b, 78a.

Raymond, C. B., 89a. Raynes, P. M., 79a.

Raynor, L. A., 130a. Rea, C. D., 17b.

Rea, H. E., 123a. Rea, Mrs. H. T., 16b. Rea, J. L., Jr., 93b.

Rea, L. E., 41a. Read, H., 32a.

Read, Mrs. J., 89b. Read, Mrs. K. H., 107a. Reath, A. N., 62a.

Reaves, C. M., 71b. Reaves, C. W., 21b.

Reaves, P. M., 132a. Reaves, R. M., 3b.

Rebert, B. K., 54b. Rebrassier, R. E., 98b, 100b.

Rechard, O. H., III, VI. Reck, S. H., Jr., 81a. Recknagel, Mrs. H. J., 87b.

Records, E., 79b. Redder, A. M., 59a. Reddick, D., 88b.

Reddy, C. S., 39a. Redemann, C. T. 59a

Reder, R. E., 102a. Redfield, G. M., 37a.

Redmond, E. J., 123a. Redmond, H. E., 126a. Reece, R. P., 81a.

Reed, A. D., 9b. Reed, A. J., 78a.

Reed, C. H., 81a. Reed, E. C., 76b. Reed, E. P., 96a.

Reed, F. D., 53b.

Reed, G. W., 63b. Reed, H. E. (N. Y.), 87a.

Reed, H. E. (Tenn.), 122a. Reed, H. J., 34a, 36a. Reed, H. M., 22a.

Reed, I. F., 2a. Reed, J., 88b. Reed, J. F., 143b.

Reed, J. P., 81a.

Reed, J. R., Jr., 126b. Reed, L., 117b.

Reed, L. W., 101a. Reed, M. A., 33a.

Reed, Mrs. M. A., 85a. Reed, R. E., 130a.

Reed, R. M., 101a. Reed, S. H., 70b.

Reed, W. E., 94a. Reeder, R. C., 126a. Reeder, R. L., 36a, b.

Reeder, W. W., 88b. Rees, C. J., VII, 19a.

Rees, L. W., 65b. Reese, C. A., 99b.

Reese, C. R., 99b. Reeves, E. L., 137a. Reeves, K., 85a.

Reeves, R. G., 123a, 125a. Regan, M. J., 71a.

Regan, W. M., 11a.

Regenbrecht, E. M., 123b. Reger, M. W., 41b. Reges, B. M., 26a.

Regnier, E. H., 32a. Regnier, R. E., 44b. Rehnberg, R. D., 5a. Reiber, H. G., 11a.

Reich, R. S., 51a. Reid, Mrs. C. V., 94b.

Reid, D. A., 46a. Reid, D. H., 125b. Reid, I. S., 8b.

Reid, J. J., 109a. Reid, J. T., 85a.

Reid, T. R., IV.

Reid, W. A., 91b. Reid, W. C., 107b.

Reid, W. H. E., 71a. Reid, W. J., Jr., 117b. Reineke, E. P., 63b. Reinhard, H. J., 124b.

Reinhard, K. R., 47a. Reinhardt, J. F., 11b.

Reinhardt, W. A., 68b. Reis, F. E., 9b.

Reisenauer, H. M., 134a. Reiser, R., 123b. Reiss, F. J., 32a.

Reist, H. N., 109b. Reitz, H. J., 23a. Reitz, J. W., 21a.

Reitz, L. P., 76a. Remmenga, E. E., 34a. Remmert, L. F., 105a.

Rendig, V. V., 12b.

Renfrow, E., 27b. Renne, R. R., III, 73a. Rennels, R. G., 33a. Renoll, E. S., 2a. Renz, A., 77b. Resnik, S. D., 16a. Reuss, L. A., 128b. Reuszer, H. W., 35a. Revell, I. L., 144a. Reyes, L., 126b. Reynolds, B. C., II. Reynolds, C. W., 2b. Reynolds, D. M., 11a. Reynolds, E. B., 123a. Reynolds, E. P., 95b. Reynolds, H. T., 14a. Reynolds, J., 71b. Reynolds, Mrs. M. S., 142a. Revnolds, P. M., 95a. Reynolds, Mrs. R., 144a. Reynolds, S. D., Jr., 125a. Reynolds, W., 16b. Rhoad, C. E., 77a. Rhoades, H. F., 76a. Rhoades, W. C., 23b. Rhoads, S. J., 143b. Rhode, C. S., 31b. Rhodes, A. D., 57b. Rhodes, M. B., 18a. Rhodes, R. R., 125b. Rhodes, V. D., 35b. Ribelin, W. E., 137b. Riccio, L. C., 17a. Rice, C. E., 25a. Rice, H. L., 135a. Rice, S. T., 20b. Rice, V. A., 56a. Rice, W. H., 55b. Rich, A. E., 137a. Rich, C. I., 131a. Rich, J. H., 57b. Rich, L. H., 128b. Rich, N. H., 53a. Rich, R. R., 91a. Rich, S., 19b. Richard, C. E., 132a. Richard, J. G., 49a, 50b. Richards, A. G., 65b. Richards, B. L., 128a. Richards, M. C., 79a. Richards, S. J., 14a. Richardson, A. L., 75b. Richardson, A. T., 79a. Richardson, B. H., 127b. Richardson, B. Y., 7a. Richardson, C., 81a. Richardson, C. H., 42b. Richardson, D., 115a. Richardson, E. C. (Ala.), 1a. Richardson, E. C. (Mich.), 62a. Richardson, F., 78a. Richardson, F. R., 70b. Richardson, F. W., 5b.

Richardson, G. A., 105a.

Richardson, G. L., 34a. Richardson, H. B., 12a. Richardson, J. B., 116a. Richardson, J. C., 25a. Richardson, J. W., 1a. Richardson, L. H., 139b. Richardson, L. R., 123b. Richardson, L. T., 119a. Richardson, M., 63b. Richardson, R. J., 25a. Richardson, W. L., 101a. Richardson-Kuntz, P., 112a. Richason, G. R., 56b. Richburg, R. W., 1b. Richer, A. C., 108a. Richey, D. J., 68a. Richey, F. D., 119a. Richie, W. T., 94b. Richmond, T. R., 123a. Richmond, W. L., 68a. Rick, C. M., 13a. Ricketts, J. R., 17b. Ricketts, R. L., 71b. Ricks, H., 132b. Riddell, W. H., 130a. Ridenour, L. N., VII. Rider, E. M., 54b. Ridgeway, W. A., 115a. Ridgway, A. M., 45a. Ridlen, S. F., 31b. Riebel, L. J., 111a. Rieckehoff, Mrs. I. G., 112a, 113a. Riecken, F. F., 38b. Riedl, W. A., 143a. Riegel, M. E., 111a. Riehl, L. A., 14a. Rieman, G. H., 141b. Riera, A., 113b. Ries, V. H., 98a. Rieur, J., 82b. Riewe, M. E., 126b. Rife, D. C., 99b. Rifenburgh, S. A., 35a. Rigau, C., 113b. Rigdon, H. P., 102b. Riggle, Mrs. K. S., 92b. Riggs, J. K., 123b. Rigney, J. A., 93a. Riherd, P. T., 127b. Riker, A. J., 142b. Riley, H. M., 44a. Riley, J. A., 117b. Riley, J. E., Jr., 19a. Riley, L. W., 116b. Riley, M., 119b. Riley, W. F., 63b. Riley, W. L., 1b. Rilling, H. E., 95a. Rincker, C. M., 143a. Rinehart, E. F., 29b. Rines, B. P., 79b. Ringrose, R. C., 80b. Rings, R. W., 100a. Rinke, E. H., 64a.

Riollano, A., 113b. Ripley, H., 88a. Ripperton, J. C., 28a. Ripsom, C. A., 73b. Risley, E. B., 80b. Rissinger, M. K., 111a. Rissmiller, W. F., 36a. Ritcher, P. O., 91b. Ritchey, G. E., 21a. Ritchie, A. E., 97a. Ritchie, R. M., Jr., 92a. Ritchie, R. R., 115a. Ritchie, Mrs. V. C., 2b. Ritchie, W. S., 56b. Ritter, B. M., 137b. Rivera, H. J., 112a. Rivera, J., 113b. Rivera-Anaya, J., 113a. Rivera-Brenes, R., 113a. Rivera-Lopez, C., 113b. Rivero, J. A., 112a. Rivers, D. W., 68b. Rivers, G. W., 123a. Rizzi, A. D., 12a. Roach, F. E., 116b. Roach, M. E., 18b. Roadhouse, C. L., 11a. Roane, C. W., 133a. Roark, C. B., 52b. Roark, D. B., 68b. Roark, F., 50b. Roath, C. W., 75b. Robb, T. R., 144a. Robbins, F. E., 34a. Robbins, P. R., 35b. Robbins, P. W., 59b. Robbins, W. R., 82a. Robbins, W. W., 11a. Roberson, N. M., 125a. Roberson, O., 41a. Roberts, A. N., 107a. Roberts, C. A., 103b. Roberts, C. D., 104a. Roberts, C. S., 3a. Roberts, E. (Ill.), 31b. Roberts, E. (Okla.), 101a. Roberts, E. G., 69b. Roberts, I., 118b. Roberts, Mrs. I., 2b. Roberts, J., 135b. Roberts, J. B., 48b. Roberts, J. E. (Mass.), 56b. Roberts, J. E. (Tex.), 126a, b. Roberts, J. H., 51b. Roberts, J. R., 3a. Roberts, N. K., 78b. Roberts, O. C., 58b. Roberts, Ralph E., 35b. Roberts, Roy E., 37b. Roberts, R. H., 142a. Roberts, R. L., 15b. Roberts, R. W., 7a. Roberts, W. H., 138a. Roberts, W. M., 91a. Robertson, A., 67a.

Robertson, D. W., 14a. Robertson, G., 136a. Robertson, G. L., 123b. Robertson, J., Jr., 58b. Robertson, J. H. (Nev.), 78a, Robertson, J. H. (Tenn.), 120a. Robertson, L. S. (Ind.), 35b. Robertson, L. S. (Mich.), Robertson, R. R., 69b. Robertson, W. F., 62a. Robeson, F. L., 23b. Robinson, A. R., 16a. Robinson, B., 120a. Robinson, B. P., 27a. Robinson, C. C., 91b. Robinson, C. E., 98b. Robinson, D. B., 97b. Robinson, F. A., 22a. Robinson, F. E., 79b. Robinson, G. E., 52b. Robinson, H. F., 93b. Robinson, H. M., 7b. Robinson, J. L., 38b. Robinson, J. S., 119b. Robinson, M. E. (N. Y.), 87a. Robinson, M. E. (Utah), 129a. Robinson, R. G., 64a. Robinson, R. H., 105a. Robinson, R. I., 28b. Robinson, R. T., 11b. Robinson, R. W., 1b. Robinson, V. B., 126a. Robinson, W. B., 89b. Robison, W. L., 99b. Robison, W. P., 120b. Robles-Arzuaga, J., 112a. Robnett, S., 121b. Robotka, F., 40a. Rocheford, J. M., 72b. Rochester, M. C., 116a. Rock, R. C., 9b. Rock, W. L., 46b. Rocke, H. A., 77b. Rockstein, M., 135b. Rockwood, E., 131a. Rockwood, Mrs. L. D., 85a. Rodabaugh, D. E., 73b. Rodeberg, H. E., 74b. Roderick, C. V., 71b. Roderick, D. B., 115b. Roderick, L. M., 45b. Roderuck, C. E., 41a. Rodgers, E. G., 21a. Rodgers, J. B., 105b. Rodney, D. R., 89b. Rodríguez, J. G., 47b. Rodríguez, J. P., 113a. Rodríguez, L. D., 113b. Rodríguez, S., 113b. Rodríguez-Arias, J. H., 112b. Rodríguez-Benítez, V., 113b.

Rodríguez-Cabrera, A., 113b. Roepke, M. H., 67a. Roessler, E. B., 12a. Roever, W. E., 122a. Rogers, A. J., 22a. Rogers, C. F., 99a. Rogers, E. A., 126b. Rogers, E. B., Jr., 116a. Rogers, F., 21b. Rogers, F. E., 72a. Rogers, G. E., 68a. Rogers, H. W., 101a. Rogers, J. S., 123a. Rogers, J. T., 116a. Rogers, J. W., 132b. Rogers, R. H., 124a. Rogers, S. N., 43b. Rogers, T. H., 1a. Rogers, W. B., 117a. Rogerson, C. T., 43b. Rogge, E., 18b. Rogoff, W. M., 118b. Rohde, C. R., 143a. Rohde, Mrs. R. G., 131a. Roholt, O. A., 135a. Rohrbeck, E. H., 109b. Rohwer, C. H., 16a. Rohwer, R. A., 104a. Rojas, M., 113b. Roldán, J., 113b. Rolf, H., 71b. Rolfe, W. H., 117b. Rollason, H. D., 57b. Rollins, Mrs. C. L., 76b. Rollins, G. H., 1b. Rollins, H. A., 18b. Rollins, M. A., 86a. Rollins, N. W., 85a. Rollins, R. L., 16a. Rollins, W. C., 11a. Román, F., 113a. Romanoff, A. L., 88b. Romine, D. S., 15a. Romshe, F. A., 103b. Roney, J. N., 5a. Roniger, E., 36b. Ronningen, T., 54a. Rood, P. J., 63a. Root, E. M., 130a, b. Root, F. H., 32b. Roque, A., 113a. Rosberg, D. W., 125b. Rosborough, J. F., 125b. Rose, C. A., 69b. Rose, E. J., 66a. Rose, G. N., 21b. Rose, J. W., 62a. Rose, R. C., 66b. Roseberry, E. D., 37a. Roseboom, B. B., 73b. Rosen, H. R., 8a. Rosenberg, L. E., 13b. Rosenberg, M. M., 29a. Rosenberger, A. M., 118b. Rosenberger, S. E., 22a.

Rosencranz, Mrs. M. L., 62a. Rosenfeld, I., 144a. Rosenfeld, L. M., 40a, b. Rosenkrans, D. B., 115a. Rosenkrans, D. B., Jr., 69a. Rosenquist, C. E., 76b. Rosenstiel, R. G., 105b. Rosenwald, A. S., 12a. Rosewall, O. W., 51b. Roskelley, R. W., 128b. Roskie, G., 75a. Ross, A. F., 88b. Ross, C. R., 107b. Ross, D. E., 58b. Ross, E. (Ga.), 25a. Ross, E. (Wash.), 136b. Ross, H., 124a. Ross, J. E., 142a. Ross, J. G., 118a. Ross, J. P., 48a. Ross, J. R., 127b. Ross, L. A., 4b. Ross, M., 103a. Ross, O. B., 101b. Ross, O. H., Jr., 90b. Ross, P. E., 127b. Ross, R. C., 32a. Ross, R. H., 30a. Rossi, Y. L., 37a. Rossman, E. C., 61a. Rossman, J. M., 111a. Rost, C. O., 67a. Roth, E. E., 62a. Rothacker, R. R., 41b. Rothgeb, R. G., 54a. Rothschild, K., 75a. Rothwell, R. T., 22b. Roubicek, C. B., 143b. Rougon, P. V., 50b. Rouk, H. F., 101b. Rouls, J., 36b. Round, G. S., 77a. Roure-Riera, L., 112a. Rourke, W. M., 57a. Rouse, A. H., 23a. Rouse, R. D., 1a. Roussel, J. S., 51b. Routh, M., 125a. Rowan, W. S., 24b. Rowe, I. B., 66a. Rowe, J. Z., 83b. Rowe, M. P., 130b. Rowe, S. S., 71a. Rowell, C. M., 123b. Rowell, J., 3a. Rowell, J. D., 5a. Rowell, J. O., 131b. Rowland, P., 129b. Rowlands, W. A., 141a, 143b. Roy, K., VII, 74b. Roy, K. B., 2a. Royder, D. R., 126b. Roys, C. S., 57b. Royster, G. W., 122b. Rozman, D., 57a.

Rubel, C. W., 8a, 9a. Rubins, E. J., 18b. Ruble, F. J., 97a. Ruby, E. S., 6a. Ruby, G. C., 77b. Ruch, J., 144a. Rucker, H. J., 33b. Rudd, R. W., 48b. Rudnick, A. W., 39b. Rudolfs, W., 82b. Rudolph, B. A., 10a. Rudy, R. L., 98b. Ruebke, H. J., 126a. Ruef, J. U., 111a. Ruehe, H. A., 31b. Ruehle, G. D., 23b. Ruff, W. M., 125a. Ruffin, W. A., 3b. Ruggles, E. W., VII. Rugland, E. R., 28a. Ruigh, W. L., 82a. Rumery, M. G., 78b. Rumff, W. H., 117b. Rummell, L. L., 96a, 99a. Runnells, R. A., 63b. Runnels, H. A., 99b. Runnels, T. D., 20a. Rupel, I. W., 124a. Rupp, R. G., 66b. Ruprecht, R. W., 22b. Rush, J. M., 115a. Rush, N. O., 144b. Rusk, H. P., III, IV, V, 30a, 31b, 32b. Rusk, W. R., 120b. Rusoff, L. L., 50a. Russel, J. C., 76a. Russell, C. E., 62a. Russell, D., 124a. Russell, H. G., 31b. Russell, M., 41a. Russell, M. B., 84a. Russell, Mrs. N., 55b. Russell, R. C., 77b. Russell, R. J., VII. Russell, S., 57a. Russell, V., 131a. Russell, W. C., III, VII, 80a. Rust, H. J., 92a. Rust, I., 28a. Rust, J. H., 122b. Rust, R. H., 31a. Rusy, B. F., 141a. Rutford, S., 65b. Ruth, R., 77b. Rutledge, G. C., 69a. Rutledge, L. L., 7a. Rutledge, R. W., 115a. Rutschky, C. W., 111b. Ruwe, A. C., 32a. Ruzek, C. V., 107b. Ryan, C. B., 125b. Ryan, D. M., 65a. Ryan, D. W., 4b.

Ryan, E., 98a.

Ryan, F. A., 19a. Ryan, G., 5b. Ryan, J. M., 119a. Ryan, Mrs. M., 89a. Ryan, M. A., 138b. Rydberg, C. O., 143b. Ryder, M. G., 51a. Rye, M. L., 7a. Ryerson, K. A., VI, 8a. Ryker, D. E., 103b. Rypma, R. B., 123b.

\mathbf{s}

Saboe, L. C., 99a. Sachse, E. S., 57b. Saddler, J., 41a. Sadler, G. L., 121a. Safanie, A. H., 63b. Safley, C. E., 4b. Safley, L. L., 121a. Sager, Mrs. A. L., 106a, 107b. Sahs, W., 76a. St. Clair, L. E., 33b. St. John, H., 28a. St. John, J. L., 134b. Sakamoto, E., 18b. Salazar-Rivera, C. G., 112b. Salem, O. A., 132a. Sales, E. K., 63b. Salisbury, G. W., 31b. Salisbury, J. D., 38a. Salisbury, R. W., 107a. Salisbury, S. M., 96b. Salmon, C. F., 111a. Salmon, W. D., 1a. Salmons, Mrs. R. M., 78b. Salo, T. P., 120a. Salomon, M. E., 114a. Salter, A. G., 9a. Salter, F. J., 96a. Saltonstall, L., Jr., 84a. Samford, J. D., 3b. Sampson, A. W., 9b. Sampson, H. C., 96b. Sampson, J., 33b. Samson, M. R., 30b. Samson, R. W., 35a. Samuels, C. E., 106b. Samuels, G., 113b. Sanborn, B. G., 79a. Sánchez-Nieva, F., 113a. Sanctuary, W. C., 58b. Sandal, P. C., 6a. Sandberg, R. A., 135b. Sander, D. A., 76a. Sanders, D. A., 22b. Sanders, H. C., IV, VI, 49a, 50b. Sanders, H. W., 132a. Sanders, K. B., 120a. Sanders, P. A., 138b. Sanders, P. H., 69a.

Sanders, R. E., 63b.

Sanderson, E. E., 118a.

Sanderson, J. E., 93b.

Sanderson, J. G., 132b. Sandhouse, H. A., 15a. Sandstead, A., 16a. Sandstedt, R. M., 76b. Sandstrom, W. M., 64b. Sandy, R. A., 132a. Sane, R., 25a. Sanford, P. E., 45b. Sansom, A. G., 9a. Sansom, B. D., 69b. Sanstead, C. D., 65b. Sappenfield, W., 72a. Sargent, G. T., 3b. Sarles, W. B., 140a. Sass, J. E., 39a. Sather, M. D., 106a. Satterfield, G. H., 91b. Satterthwaite, M. E., 110a. Sauberlich, H. E., 1a. Sauer, E. L., 32a. Sauer, H. M., 119b. Saunders, C. R., 1b. Saunders, F. B., 24b. Saunders, J. K., 123a. Saunders, J. R., 26b. Sautter, J. H., 67b. Savage, E. F., 26b. Savage, J. R., 121b. Savage, W. E., 53a. Savage, Z., 21b. Saveson, I. L., 50b. Saville, D., 103a. Saville, R. J., 68b. Sawyer, W. A., 108b. Saxon, D. G., 16b. Saxton, E. H., 77b. Sayles, C. I., 86b. Saylor, N., 23b. Sayre, C. B., 90b. Sayre, J. D., 99a. Scales, A. L., 124b. Scales, J. W., 70a. Scales, M., 107a. Scantland, L. B., 136a. Scarborough, C. C., 92a. Scarborough, E. N., 92b. Scarchuk, J., 18b. Scarsbrook, C. E., 49a. Schaal, L., 15a. Schaars, M. A., 140b. Schade, H. A., VII. Schaefer, A. E., 1b. Schaeffer, W. H., 16b. Schafer, E. G., 134a. Schafer, W. A., 5a. Schaffner, L. W., 95a. Schall, E. D., 35a. Schall, J. M., 44a. Schaller, C. W., 10b. Schaller, F. W., 38b. Schallock, D. A., 114a. Schalm, O. W., 13a. Schantz-Hansen, L., 37a. Schantz-Hansen, T., 66a. Scharff, D. K., 75b.

Schaub, M. K., 92a. Schaufler, E. F., 87a. Scheaffer, M. A., 41a. Scheel, J. W., 106a. Scheele, R., 62b. Scheer, B. T., 29b. Scheid, A. H., 66a. Schember, V. E., 126a. Scheneman, C., 71b. Schermerhorn, L. G., 82a. Schickele, R. W., 95a. Schierz, E. R., 143b. Schilletter, A. E., 116b. Schilletter, J. C., 41b. Schilt, L. F., 144a. Schinagl, J. F., 144a. Schirmer, R. G., 63b. Schlamb, K. F., 94b. Schlaphoff, D. M., 77b. Schlehuber, A. M., 101b. Schleicher, E. W., 76a. Schlenk, H., 123b. Schleusener, P. E., 60b. Schmehl, W. R., 15a. Schmeideskamp, R. E., 75b. Schmid, A. R., 64a. Schmid, W. J., 30a. Schmidt, H., 126a. Schmidt, J. P., 97b. Schmidt, M. E., 95b. Schmidt, O. A., 110b. Schmidt, R., 93a. Schmidt, W. E., 18a. Schmith, A. L., 79b. Schmitt, J. B., 81a. Schmitt, M., 92a. Schmittle, S. C., 33b. Schmitz, F. B., 52a. Schmitz, H., 64a, 66a. Schmitz, J. A., 3a. Schnautz, J. O., 107b. Schneider, A. E., 66a. Schneider, B. H., 134b. Schneider, E. C., 130b. Schneider, G. B., 122b. Schneider, G. W., 93a. Schneider, H., 14b. Schneider, I. F., 63a. Schneider, L. F., 59b. Schoeff, R. W., 35b. Schoene, W. J., 131a. Schoenmann, L. R. A., 59b. Schofield, F. A., 121b. Scholl, J. M., 38b. Scholl, M. G., 66a. Schollenberger, C. J., 99a. Scholten, H., 36b. Scholtes, W., 38b. Schooler, A., 118a. Schoonover, W. R., 9b. Schopp, R., 30a. Schoppe, D. J., 98a. Schoth, H. A., 106a. Schrader, L. L., 118a. Schread, J. C., 19a.

Schrenk, W. G., 43b. Schroeder, C. A., 14a. Schroeder, E. W., 102b. Schroeder, R. A., 72b. Schroeder, W. P., 60a. Schroeder, W. T., 89b. Schruben, L. W., 44a. Schrum, J. M., 123b. Schrumpf, W. E., 53a. Schrunk, J. F., 77a. Schubert, J. R., 105a. Schubert, O. E., 138b. Schuck, C., 37a. Schudel, H. L., 106a. Schuder, D. L., 36a. Schueler, J. E., Jr., 55b. Schultz, D., 98a. Schultz, E. F., 1a. Schultz, J. H., 96a. Schultz, L. H., 85a. Schultz, O. C., 102a. Schultz, R. P., 30b. Schultze, A. B., 76b. Schultze, F., 37a. Schultze, M. O., 64b. Schulz, A. H., 95a. Schulz, J. A., 39b. Schulz, L. R., 44b. Schulz, O. R., 79b. Schunke, Mrs. M., 114b. Schuster, G. L., 19a. Schuster, M. L., 78a. Schuster, R. E., 70a. Schutt, C. D., 85a. Schwab, D. P., 121a. Schwab, Mrs. L. O., 77b. Schwab, M. J., 106b. Schwalbach, J. A., 142b. Schwälen, H. C., 5a. Schwantes, A. J., 65a. Schwardt, H. H., 86b. Schwarte, L. H., 42b. Schwartz, J. W., 41b. Schwartz, S., 19b. Schwartze, C. D., 136b. Schweizer, H. H., 16a. Schwietzer, G. K., 120a. Scofield, H. T., 91b. Scofield, J. A., 125a. Scofield, J. H., 16a. Scoggin, J. F., 69a. Sconyers, M. C., 3b. Scott, A., 121a. Scott, A. D., 38b. Scott, A. W., 24a. Scott, B. M., 88b. Scott, C. E. (Calif.), 9b. Scott, C. E. (Ind.), 34b. Scott, D. D., 98a. Scott, D. R., 141a. Scott, E. F., 69b. Scott, F. H., 133a. Scott, F. M., 13b. Scott, H. M., 31b. Scott, J. W., 144b.

Scott, L. E., 55b. Scott, M. J., 32a. Scott, M. L., 88b. Scott, R. C., 97a, 100a. Scott, R. J., 89a. Scott, W. H., 12a. Scott, W. (Ala.), 4b. Scott, W. (Del.), 20a. Scott, W. O., 31a. Scoville, G. P., 86a. Scoville, O. J., 44a. Scrivner, L. H., 30b. Scruggs, S. D., 73a. Scudder, F. A., 84a, 86b. Scullen, H. A., 105b. Seabrook, P., 116b. Seabrook, P. D., 116b. Seal, J. L., 1b. Seal, M. L., 84b. Seale, C. C., 23a. Sealock, R. R., 39b. Seamans, A. E., 75b. Searcy, V. S., 1a. Searl, A. M., 33a. Searles, H. R., 65a. Searls, E. N., 86a. Searls, Mrs. I. G., 87b. Sears, E. R., 72a. Sears, O. H., 31a. Sears, R. D., 133b. Seath, D. M., 46b. Seaton, J. P., 34a. Seaton, M. A., 45b. Seatz, Mrs. J. W., 122a. Seatz, L. F., 119a. Seaver, S. K., 18a. Seay, W. A., 46a. Seeborg, E. F., Jr., 135a. Seeger, K. C., 20b. Seeley, H. W., Jr., 85b. Seeley, J. G., 111a. Seely, C. I., 29a. Seem, B. L., 108a. Sefick, H. J., 116b. Seghetti, L., 75a. Segner, E. F., 69b. Segrest, J. F., Jr., 1a. Seidel, K. V., 33a. Seijo-Tizol, E., 112b. Seim, H. J., 78a. Seitz, C. E., 132a. Selby, W., 44b. Self, E. W., 45a. Self, F. W., 49a. Self, L. L., 3b. Self, R. L., 1b. Selke, E., 103a. Sell, H. M., 59a. Sell, O. E., 26a. Sellards, H. G., 47a. Selleck, J. K., 75a. Sellers, A. F., 67b. Sellers, J. D., 3a. Sellers, L. L., 2a. Seltzer, R. E., 5a.

Semeniuk, G., 39a. Senger, M. E., 54b. Senn, P. H., 21a. Senn, T. L., 116b. Senn, V. J., 140a. Serr, E. F., Jr., 12b. Serra, G., 113a. Settle, J. E., 134b. Settle, M., 132b. Settler, S. H., 104a. Settles, O., 41a. Severance, C. E., 50b. Severin, H. C., 118b. Severson, G. M., 76b. Sewall, H. W., 67b. Seward, W. E., 104b. Sewell, W. H., 142b. Sewell, W. O., 122b. Sexauer, T. E., 40a. Sexson, V. D., 36b. Sguros, P. L., 35a. Shaben, L., 87b. Shackelford, R. M., 141b. Shade, Mrs. C. S., 52b. Shafer, J. F., 35a. Shafer, J. I., 133a. Shafer, N. E., 76a. Shaffer, H. E., 109b. Shaffer, J. D., 60a. Shaffner, C. S. (Md.), 55b. Shaffner, C. S. (Pa.), 108b. Shake, A. W., 35b. Shands, H. L., 140a. Shands, J. H., 26a. Shands, R. G., 140a. Shank, D. B., 118a. Shank, N. D., 41a. Shankland, H. G., 45b. Shanklin, J. A., 90b. Shanks, J. B., 55b. Shanks, R. E., 120a. Shanley, C., 118b. Shannon, D. E., 15b. Shapley, S. R., 89b. Sharp, A. C., 34b. Sharp, A. J., 120a. Sharp, D., Jr., 129a. Sharp, D. B., 43b. Sharp, J. B., Jr., 122a. Sharp, J. W., 100a. Sharp, M. A., 120b. Sharp, P. F., V, 8a. Sharp, W. M., 111b. Sharpe, G., 139a. Sharpe, R. H., 22a. Sharples, G. C., 5b. Sharrock, M., 103a. Sharvelle, E. G., 35a. Shaulis, N. J., 89b. Shaver, C., 107a. Shaver, J. R., 73b. Shaw, A. O., 135a. Shaw, Mrs. B. L., 138a. Shaw, C. G., 137a. Shaw, F. R., 57b.

Shaw, J. C., 54b. Shaw, J. N., 107b. Shaw, L., 93b. Shaw, M. S., 68a, 69a. Shaw, R. H., 38b. Shaw, R. J. (Ariz.), 5a. Shaw, R. J. (Utah), 128a. Shaw, S. S., 34b. Shaw, T. E., 36b. Shaw, W. M., 120a. Shawl, R. I., 32b. Shay, J. R., 35a. Shear, G. M., 133a. Shear, S. W., 8b. Shearer, P. S., 38b. Sheehan, M. H., 17b. Sheehy, R. W., 3a. Sheely, C. Q., 68b. Sheets, E. W., 78a. Sheets, G., 93b. Sheets, O. A., 69b. Sheffield, C. S., VI. Shelby, H., 55b. Shelden, G., 103a. Sheldon, V. L., 73a. Sheldon, W. H., 60b. Shellenberger, J. A., 45b. Shelley, R. C., 115a. Shellhorse, E. T., 24b. Shelor, E., 26b. Shelton, D. C., 1b. Shelton, F. V., 132a. Shelton, G. C., 73a. Shelton, J. A., 139b. Shelton, J. M., 123b. Shelton, M., 119b. Shelton, M. P., 121b. Shenberger, L. C., 35a. Shenefelt, R. D., 141a. Shepard, D. H., 62b. Shepard, J. L., 19a. Shepard, R. L., 95a. Shepardson, C. N., IV, 123a. Shepardson, E. S., 86b. Shepherd, G. S., 40a. Shepherd, H. W., 10a. Shepherd, J. L., 27b. Sheppard, C. C., 62b. Sherburne, R. E., 57a. Sherburne, V. C., 54b. Sherf, A. F., 39b. Sheridan, M. E., 4a. Sherk, K. W., 28a. Sherman, F., III, 60b. Sherman, G. D., 29a. Sherman, J. M., 85b. Sherman, M., 28a. Sherman, R. W., 97a, 100a. Sherrell, A. G., 131a. Sherrill, S. J., 69b. Sherritt, G. W., 108b. Sherwood, C. H., 41b. Sherwood, D. H., 108b. Sherwood, F. W., 91a. Sherwood, L. V., 4a.

Sherwood, R. M., 125b. Sheuring, J. J., 24b. Shideler, F. J., 16b. Shigley, J. W., 109a. Shilling, G. D., 43b. Shimer, S. R., 79b. Shiozawa, K., 129b. Shipe, W. F., Jr., 85b. Shipley, F., 129a. Shipley, M., 79a. Shires, L.-B., 83a. Shirky, S. B., IV, 70a. Shirley, C. S., 50b. Shirley, R. L., 21a. Shivery, G. B., 122a. Shobe, P., 16b. Shoemaker, K. G., 140b. Shoemaker, M., 7b. Shoemaker, M. M., 55b. Shoesmith, L., 95b. Shoffner, R. N., 66b. Shoffner, R. W., 92b. Sholl, L. B., 63b. Shook, J. C., 108b. Shootes, Q. E., 73b. Shoptaw, L. N., 7a. Shorb, M., 55b. Short, L. M., IV. Showalter, M. F., 91b. Showalter, R. K., 22a. Shrader, J. A., 48b. Shrode, M. C., 125a. Shrode, R. R., 125a. Shudlick, E. F., 28b. Shuey, G. A., 120a. Shulkcum, E., 131a. Shull, S. C., 54b. Shultis, A., 9b. Shultz, L., 125a. Shunk, I. V. D., 91b. Shurtleff, M. C., 114b. Shutak, V. G., 114b. Shute, A. W., 56b. Sibbitt, L. D., 96a. Sicer, J. W., 37b. Siedschlag, E. W., 116a. Sieling, D. H., 56a, 58b. Sieglinger, J. B., 101b. Siegmund, O. H., 13a. Siewert, S. W., 26b. Sifontes, A. T., 112a. Sigafoose, W. T., 54b. Sigafus, R. E., 46b. Siggelkow, Mrs. L. V., 142a. Sigler, W. M., 129a. Sikes, A. M., 22a. Sikes, D., VIII, 119b. Silbaugh, J. F., 139a. Silk, T., 87b. Silker, R. E., 43b. Silker, T. H., 127a. Silva, E., 113a. Silva, P., 112b. Simanton, W. A., 23a. Simerl, L. H., 32a.

INDEX OF NAMES

Simkins, C. A., 29a. Simmons, C. F., 1a. Simmons, C. W., 125b. Simmons, D., 65b. Simmons, E., 75b. Simmons, J. E., 105a. Simmons, J. W., 104a. Simmons, L., 70b. Simmons, S. B., 94b. Simon, C. M., 41b. Simon, E. C., 51b. Simon, J., 143a. Simon, R. H., 99a. Simonds, A. O., 15a. Simonds, W. W., 110b. Simons, H. M., Jr., 116b. Simons, J. W., 25a. Simons, L. R., 84a, 86b. Simpson, B. T., 94b. Simpson, C. F., 22b. Simpson, D. E., 141a. Simpson, D. M., 119a. Simpson, E., 32a. Simpson, G. W., 53a. Simpson, J. D., 123a. Simpson, K., 122a. Simpson, T. M., VII. Simrall, Mrs. M. V., 68b. Sims, A. C., 117b. Sims, A. J., 122a. Sims, C., 38b. Sims, W. E., 104b. Sinclair, G. M., 28a. Sinclair, W. B., 14b. Sinden, J. W., 109a. Singer, F. A., 57a. Singletary, B. H., 51a. Singletary, C. B., 49b. Singletary, C. C., 45a. Singleton, H. P., 134a, 137b. Singleton, J. R., 71a. Singleton, O. K., 89a. Singley, M. E., 81a. Singsen, E. P., 18b. Sinnard, H. R., 105b. Sinnhuber, R. O., 106b. Sippel, W. L., 27a. Sisler, W. W., 95b. Sites, J. W., 23a. Sitterley, J. H., 97a. Sivyer, H. R., 121b. Sizemore, E., 3b. Sjogren, J. W., 132b. Skaggs, S. R., 83b. Skelton, W. E., 132b. Skidmore, C. J., 128b. Skidmore, L. V., 76b. Skiles, R. L., 15a. Skinner, C. E., 134b. Skinner, F. F., 94a. Skinner, H. M., 74b. Skinner, L. I., 25a. Skinner, R. E., 47b. Skinner, T. C., 21b. Skog, R. E., 59b.

Skoglund, W. C., 20a. Skold, L. N., 119a. Skolil. L. L., 12a. Skorpen, J. M., 28a. Skrabanek, R. L., 124a. Skrdla, W., 133b. Slanetz, L. W., 79a. Slate, G. L., 89b. Slatter, W. L., 97a, 99b. Slaughter, Mrs. S. K., 48b. Slayback, H. R., 82b. Slayton, R. A., 121b. Sleesman, J. P., 99b, 100a. Slife, F. W., 31a. Slipher, J. A., 96a. Sloan, F., 92a. Sloan, H. J., 66b. Sloan, J. T., 125b. Sloan, R. F., 43a. Slocum, G. K., 92b. Sloop, F. A., 72b. Sloss, M. W., 42b. Slusher, M. W., 6b. Slykhuis, J. T., 119a. Smart, C. L., 35a. Smart, H. W., 57a. Smart, M. S., 85a. Smart, R. C., 85b. Smart, W. W. G., 91a. Smeltzer, D. G., 10b. Smerchek, J. F., 44a. Smick, A. A., 137a. Smith, A. C., 102a. Smith, A. D., 129a. Smith, A. H., 12b. Smith, A. G., Jr., 133a. Smith, A. L. (Ala.), 1a. Smith, A. L. (Mich.), 62a. Smith, A. L. (Tex.), 123b. Smith, A. M., 9b. Smith, Mrs. A. S., 98a. Smith, B. C., 98a. Smith, B. M., 41a. Smith, B. W., 90b. Smith, C. B., 111a. Smith, Mrs. C. C., 53b. Smith, C. D., 30a. Smith, C. E., 51b. Smith, C. F., 91b. Smith, C. G., 93b. Smith, C. L., 106a. Smith, C. R. (Iowa), 40a. Smith, C. R. (Ohio), 98b. Smith, C. R. (S. C.), 116a. Smith, C. W. (Nebr.), 77a. Smith, C. W. (Oreg.), 106a. Smith, D., 62a. Smith, D. A., 42b. Smith, D. C., 140a. Smith, D. D., 73a. Smith, D. V., 81a. Smith, D. W. (Fla.), 23a. Smith, D. W. (Wis.), 140a. Smith, E., 40b. Smith, E. E., 33a.

Smith, E. F., 43a. Smith, E. G. (Hawaii), 28a. Smith, E. G. (La.), 50b. Smith, E. H., 89a. Smith, E. J., 140b. Smith, Mrs. E. J., 144a. Smith, E. P., 74a. Smith, E. T., 95b. Smith, E. V., V, 1a. Smith, E. Y., 88b. Smith, F., 64b. Smith, F. B., 22b. Smith, F. C. (Nebr.), 77b. Smith, F. C. (Tenn.), IV. Smith, F. D., 94b. Smith, F. F., 2a. Smith, F. G., 39b. Smith, F. H., 91a. Smith, F. L., 10b. Smith, F. M., 69b. Smith, F. V., 35b. Smith, F. W., 43a. Smith, G. E., 73a. Smith, G. E. P., 5a. Smith, G. G., 135a. Smith, G. H., 114b. Smith, G. L. (Calif.), 9a. Smith, G. L. (N. H.), 79a. Smith, G. L. (Tex.), 127a. Smith, G. M., 35a. Smith, G. R. (Conn.), 19a. Smith, G. R. (USDA), II. Smith, G. S., 94a, 95b. Smith, H. A. (Tenn.), 120a. Smith, H. A. (Tex.), 126a. Smith, H. C., Jr., 119a. Smith, H. D., 54b. Smith, H. E., 35b. Smith, H. F., 93b. Smith, H. G., 82b. Smith, H. H., 88a. Smith, H. I., 55b. Smith, H. J. (Miss.), 69b. Smith, H. J. (Tenn.), 119b. Smith, H. O., 83a. Smith, H. P., 124b. Smith, Mrs. H. P., 89a. Smith, H. S., 14a. Smith, H. V., 5a. Smith, H. W. (Me.), 52b. Smith, H. W. (Wash.), 134a. Smith, J. A. (Ga.), 24b. Smith, J. A. (Ky.), 47b. Smith, J. B., 114a. Smith, J. C., 123a. Smith, J. E., Jr., 72b. Smith, J. F. D., VI, VII. Smith, J. G., 121b. Smith, J. H., 56b. Smith, J. L. (Fla.), 22a. Smith, J. L. (Miss.), 69b. Smith, J. M., VII, VIII, 33a. Smith, J. R., 6a, 7a. Smith, J. T., 97a. Smith, J. W., 101b.

Smith, L., 134a. Smith, Mrs. L. B., 107a. Smith, L. D., 75a. Smith, L. H., 130a. Smith, L. J., 110a. Smith, L. L. (Ga.), 25a. Smith, L. L. (Minn.), 65b. Smith, L. M. (Calif.), 11b. Smith, L. M. (Miss.), 69a. Smith, L. W., 118b. Smith, M. B. (Conn.), 18a. Smith, M. B. (Tex.), 125a. Smith, M. E. (Mass.), 57b. Smith, M. E. (Minn.), 66a. Smith, M. F., 36b. Smith, M. G., 97a. Smith, M. L., 77b. Smith, N. A., Jr., 9b. Smith, Mrs. N. N., 107a, Smith, O. (La.), 51a. Smith, O. (Nev.), 78a. Smith, O. (N. Y.), 89a. Smith, O. E., 127a. Smith, O. R., 116a. Smith, P. E., 6a. Smith, P. G., 13a. Smith, R. A., 51b. Smith, R. B., 22a. Smith, R. C. (Mo.), 72a. Smith, R. C. (Kans.), 44b. Smith, R. E. (Ga.), 25a. Smith, R. E. (Ind.), 38b. Smith, R. E. (Mass.), 58b. Smith, R. F., 9a. Smith, R. J., 13b. Smith, R. K., 69a. Smith, R. L., 23b. Smith, R. M. (Ark.), 6a. Smith, R. M. (Wash.), 136a. Smith, R. O., 118a. Smith, S. B., 115a. Smith, S. C., 140b. Smith, S. E., 85a. Smith, T. J., 131a. Smith, T. M., 131b. Smith, V. R., 140b. Smith, V. T., 29a. Smith, W., 144b. Smith, W. A., 86a. Smith, W. C., 77b. Smith, W. H., 43a. Smith, W. H., Jr., 125a. Smith, W. K., 140a, 141b. Smith, W. M., Jr., 111a. Smith, W. T., Jr., 120a. Smith, W. W. (Ind.), 34b. Smith, W. W. (Mass.), 57b. Smith, W. W. (N. H.), 80b. Smith, W. W. (Utah), 128a. Smithcors, J. F. 63b. Smock, R. M., 88b. Smurthwaite, G. H., 44b. Smyth, J. R., 53b. Smyth, J. R., Jr., 58b.

Smythe, L. T., 118b.

Snapp, N. N., 69b. Snapp, R. R., 31b. Snare, J. L., 1b. Snedecor, G. W., 42a. Snell, A. W., 116a. Snell, E. E., 140a. Snell, R. S., 81b. Snider, H. J., 31a. Sniff, E., 108b. Sniffen, M. M., 9b. Snodgrass, G. L., 48b. Snoeyenbos, G. H., 58b. Snow, C., 18b. Snow, S. J., 129b. Snowden, O. L., 69a. Snuggs, R. E., 124a. Snyder, F. G., 121a. Snyder, F. W., 6a. Snyder, G. B., 58a. Snyder, J. C., 136b. Snyder, L. B., 77a. Snyder, L. C., 66b. Snyder, Mrs. M. E., 53b. Snyder, R. W., 123b. Snyder, K. w., 1200.
Snyder, W. C., 10a.
Snyder, W. E., 87a.
Snyder, W. H., 119a.
Snyder, W. K., 83b.
Snyder, W. W., 60a.
Sobala, D., 57b. Soderburg, H. W., 67b. Soegaard, Mrs. A. M., 112b. Soine, O. C., 67b. Solderholm, L. H., 77a. Solheim, W. G., 143b. Sollars, W. F., 135a. Somerhalder, B., 77a. Somers, G. F., Jr. 85a. Somers, L. A., 33b. Sommer, H. H., 140b. Soost, R. K., 14b. Sooter, S. M., 101b. Sorden, L. G., 141a. Sorenson, C. J., 130a. Sorenson, D. K., 143a. Sorenson, J. W., 124b. Sorenson, C. W. W., 119a. Soto, T., 112b. Soults, M. W., 40a. Southern, J. H., 124a. Southwell, B. L., 27a. Southwick, F. W., 58b. Sower, C. E., 62b. Spaeth, J. N., 32b. Spalding, R. W., 85a. Sparks, L. M., 117a. Sparks, M., 25a. Sparks, W. C., 30b. Sparrow, G. N., 27b. Spasoff, L., 133a. Spaulding, I. A., 115b. Spaulding, J. A., 94b. Spaulding, M. F., 122b. Spaulding, Mrs. P. F., 142a. Spaven, J. W., 130b.

Spawn, G. B., 118b. Spear, A. J., 58b. Speck, E. P., 12a. Speck, M. L., 91a. Speck, S. J., 24b. Speer, E. L., 121b. Speer, J. B., Jr., 124a. Speirs, M., 26b. Spelman, A. F., 56b. Spencer, E. L., 23b. Spencer, G. E., 36a. Spencer, J. L., 56b. Spencer, L., 86a. Spencer, L. H., 2b. Spencer, M. S., 55b. Spencer, R. A., 19a. Spencer, V. E., 79a. Sperry, I. V., 25b. Sperry, J. J., 123b. Sperry, O. E., 125b. Spidle, Mrs. M. W., VII, VIII, 2b. Spielman, A. A., 17a, 18a. Spigener, W., 94b. Spilhaus, A. F., VII. Spindler, H. G., 57a. Spinks, D. O., 22b. Spitler, G. H., 27b. Spitz, I. A., 139b. Splitgerber, G. H., 15b. Splitter, E. J., 46a. Sprague, D. C., 110a. Sprague, G. F., 38b. Sprague, M. A., 81b. Sprague, R., 137a. Sprain, D. G., 140b. Spring, M., 63b. Springer, M. E., 73a. Springstun, R., 121b. Sproston, T., Jr., 130a. Sproul, R. G., 8a. Spuhler, J. N., 99b. Spurlock, A. H., 21b. Spurlock, D., 51a. Spurr, A. R., 13a. Spurr, S. H., 66a. Spurrell, F. A., 67b. Spurrier, F. M., 9a. Squiers, C. D., 1b. Squire, F. H., 19a. Squires, D. W., 55a. Squires, S., 19a. Srb, A. M., 88a. Staab, J. H., 121b. Stabe, S. C., 81a. Stabler, S. P., 54a. Stabley, F. W., 62a. Staby, J., 41b. Stachwick, G., 78a. Stack, J. W., 64a. Stacy, G. W., 135a. Stacy, S. V., 26a. Stacy, W. H., 40a. Stadelman, W. J., 137a. Stadler, J., 40b.

Stadler, L. J., 72a. Staebler, A. E., 59b. Stafford, E. M., 11b. Stafford, E. W., 70a. Stafford, G. R., 16a. Stafseth, H. J., 63b. Stahler, L. M., 118a. Stahmann, M. A., 140a. Stair, E. C., 37b. Staker, E. F., 76b. Stakman, E. C., 66b. Staley, F. M., 117a. Stallard, F., 48a. Stallard, J. E., 140b. Stalleup, O. T., 6a. Stallings, H. D., 96b. Stamper, E. R., 49b. Stanberry, C. O., 134a. Stancil, D. S., 92a. Stanek, M. S., 16b. Stanfill, M., 121a. Stanford, E. H., 10b. Stanford, G., 38b. Stanford, J. S., 130a. Stange, J., 121b. Stanick, H., 87a. Staniforth, D. W., 38b, 39b. Stanley, A. J., 51b. Stanley, E. B., 4a. Stanley, F. E., 50a. Stanley, J. E., 69b. Stanley, J. M., 27b. Stanley, W. W., 121a. Stanton, H. R., 81a. Stanton, H. S., 7a. Stanton, V., 92b. Stanway, V., 72a. Staples, Robert, 77a. Staples, Ruth, 77a. Stapleton, H. N., 57a. Starbuck, R. R., 96b. Stark, C. N., 85b. Stark, D. H., 60a. Stark, E. W., 36b. Stark, F. C., Jr., 55b. Stark, W. M., 35a. Starkey, L. V., 115a. Starkey, R. L., 82a. Starling, J. G., 3b. Starling, T. M., 131a. Starnes, O., 81a. Starr, G. H., 143a. Starr, J. W., 69b. Starr, M. E., 111a. Starr, M. P., 11a. Starr, W. A., 134a. Starrak, J. A., 40a. Staten, G., 83a. Staten, H. W., 101b. Stauffer, R. S., 31a. Staver, C. G., 16a. Steanson, O., 26b. Stearman, B. D., 105a. Stearns, C. R., Jr., 23a. Stearns, F. W., 35a.

Stearns, L. A., 20a. Stearns. R. L., IV. Stebbins, F. M., 46a. Stebbins, G. L., Jr., 12a. Stech, O. D., 37a. Steckel, J. E., 108a. Stedman, L. A., III, 53b. Steece, H. M., II. Steel, R. G. D., 140a. Steele, B. (Nebr.), 77b. Steele, B. (N. Y.), 87b. Steele, D. G., 46b. Steele, J. C., 77a. Steenbock, H., 140a. Steenland, A. P., 105a. Steer, R. D., 116a. Stéfani, L., 111a. Steffen, E. H., 136a. Steffen, H., 128a. Steffens, J. F., Jr., 21b. Steglich, W. G., 15b. Steidl, R., 86a. Stein, R. S., 56b. Steinbauer, G. P., 59a. Steinbruegge, G. W., 7a. Steinhaus, E. A., 8a. Steinhoff, H. W., 16b. Steinicke, D., 62b. Steininger, G., 87b. Steinmetz, F. H., 52b. Stella, H., 112a. Stelly, M., 24a. Stelly, R., 50a. Stemler, F. W., 35a. Stemme, W. J., 69b. Stemmons, W., 18a. Stephen, W. A., 91b. Stephens, D. F., 104a. Stephens, J. C., 126b. Stephens, J. L., 27a. Stephens, J. P., 101b. Stephens, M., 41a. Stephens, M. V., 2a. Stephens, R. D., 24b. Stephens, S. G., 90b. Stephens, T. S., 125b. Stephens, W. P., 83b. Stephenson, A. B., 129b. Stephenson, E. L., 6b. Stephenson, R. E., 107b. Stepp, J. M., 116a. Sterges, A. J., 120a. Sterling, H. O., 23a. Stern, D. N., 58b. Stern, J. K., 109b. Sterns, H., 104b. Stevens, C. E., Jr., 71b. Stevens, C. L., 80a. Stevens, C. M., 135a. Stevens, D. M., 15b. Stevens, G., 54b. Stevens, G. Z., 110a. Stevens, H., 29a. Stevens, I. M., 143a. Stevens, K. R., 128a.

Stevens, L. H., 22a. Stevens, O. A., 96a. Stevens, R. B., 120a. Stevens, R. F., 20b. Stevens, T. D., 59b. Stevens, W. L., 103b. Stevenson, A. M., 136a. Stevenson, Mrs. C. W., 20b. Stevenson, E. C., 37b. Steward, F. C., 85a. Stewart, A. E., 83b. Stewart, A. P., 36b. Stewart, C. E., 74b. Stewart, C. L., 32a. Stewart, E. H., 115a. Stewart, F., 3b. Stewart, F. A., 32a. Stewart, G. F., V, 12b. Stewart, G. G., 2a. Stewart, G. H., 116a. Stewart, H. A. (N. C.), 91a. Stewart, H. A. (Va.), 133b. Stewart, I., III, IV, V, 137a. Stewart, J. J., 128b. Stewart, J. M., 5a. Stewart, M. A., 9a. Stewart, R. B., 34a. Stewart, R. E., 71b. Stewart, T., 66b. Stewart, T. G., 16a. Stewart, W. F., 97a. Stice, L. F., 32a. Stickel, P. W., 57b. Stickley, E. S., 43b. Stier, H. L., 54b. Stifel, J. R., 63b. Stiles, C. F., 102b. Stiles, F., 136a. Stiles, K. A., 64a. Stillman, G. S., 142a. Stimmel, Mrs. M. P., 17b. Stinnett, L. H., 102a. Stinson, R. F., 18b. Stinson, T. B., 46b. Stir, F., 98a. Stith, L. S., 127b. Stitt, L. L., 135b. Stitt, R. E., 74a. Stiver, E. N., 127b. Stivers, R. K., 131a. Stoa, T. E., 95b. Stock, E. M., 129a. Stockdale, P. B., 121a. Stocker, Mrs. M. K., 87a. Stocking, C. M., 37b. Stocking, C. R., 11a. Stocking, J. A., 75b. Stocks, E., 89b. Stockton, F. M., 125b. Stockton, J. J., 63b. Stockwell, H. J., 16a. Stoddard, E. D., 26b. Stoddard, E. M., 19b. Stoddard, G. D., 30a. Stoddard, G. E., 39a.

Stoddart, L. A., 129a. Stoehr, H. A., 59b. Stoflet, D. A., 138b. Stoker, Mrs. F. S., 51b. Stoker, G. L., 128a. Stokes, C. M., 2a. Stoll, F. C., 37b. Stonaker, H. H., 15a. Stone, E. C. (Calif.), 9b. Stone, E. C. (Wash.), 137b. Stone, E. J., 94b. Stone, E. L., Jr., 84a. Stone, G., 62b. Stone, P. C., 71b. Stone, P. H., 27b. Stone, R. W., 108b. Stone, W. H., 141b. Stone, W. J., 47a. Stoneberg, E. G., 40a. Stoneberg, H., 49a. Stoneburner, P. W., 132b. Stoner, W. N., 23a. Storer, T. I., 13b. Storey, W. B., 28b. Storie, R. E., 10b. Stormont, C., 13a. Stormont, J. L., 28a. Storvick, C. A., 107a. Story, R. P., 130b. Stott, C. C., 92a. Stout, C. O., 56a. Stout, E., 51a. Stout, G. J., 22b. Stout, O. E., 101b. Stout, P. R., 10a. Stout, W. B., II. Stoutemyer, V. T., 13b. Stover, H. E., 44b. Stover, W. G., 96b. Stowe, C. M., 67b. Strader, J., 98a. Strahan, H. B., 61a. Straight, C., 88a. Straight, E. W., 10a. Strait, J., 65a. Strand, A. B., 122a. Strand, A. L., IV, 104a. Strand, N. V., 42a. Strang, A. J., 141a. Straszheim, R. E., 37b. Strate, J. T., 15b. Stratton, J. C., 103b. Stratton, R., 102a. Street, J. E., 12b. Street, O. E., 54a. Streetman, H. L., 116a. Streets, R. B., 5b. Stregevsky, S., 138a. Streit, S. A., 136a. Stribling, B. H., 116a. Stribling, S. C., 116b. Strickland, C. H., 115b. Strickland, G., 106b. Strickland, J. V., 56b. Strickling, E., 54a.

Strieby, C. D., 103a. Stringfield, G. H., 99a. Strocinsky, F., 136b. Stroman, Mrs. E. D., 84a. Stroman, G. N., 83a. Stromberg, L. K., 10b. Stromlund, E. V., Jr., 3a. Strommen, A. M., 140a, 143b. Strong, C. R., 101a. Strong, F. C., 59a. Strong, F. M., 140a. Strong, H. T., 9b. Strong, Mrs. M. C., 59a. Strong, R. G., 51b. Strong, V. A., 84a. Stroven, C. G., 28b. Struble, F. B., 102a. Struchtemeyer, R. A., 52a. Struckmeyer, B. E., 142a. Stuart, H. O., VI, 114a. Stubbs, J. W., 136a. Stuckey, I. H., 114b. Stuckey, W. E., 97a. Stucki, R. E., 50b. Stucky, H. R., 74b. Stucky, W. G., 74b. Stull, J. W., 5a. Stullken, D. E., 36b. Stumbo, C. R., 136b. Stumpf, P. K., 10a. Sturgis, L., 136b. Sturgis, M. B., 49a. Sturkie, D. G., 1a. Sturkie, P. D., 82b. Sturlaugson, V., 96b. Sturm, J. J., 75b. Sturtevant, A. P., 144a. Suárez, C., 112a. Suárez, L. A., 112a. Sudds, R. H., 18b. Sugg, R. S., 3a. Suggitt, F. W., 59b. Suhre, M. E., 32a. Suit, R. F., 23a. Sulek, Mrs. H., 77b. Sulek, J., 77a. Sullivan, C., 33a. Sullivan, J. F., 107b. Sullivan, L., 41a. Sullivan, R. L., 110a. Sullivan, V., 82b. Sullivan, W., 9b. Suman, R. H., 27b. Summers, F. M., 11b. Summers, G. P., 48b. Summers, M. N., 2b. Summers, T. E., 68b. Summers, T. H., 15b. Summers, W. S., 136b. Sumner, D. C., 10b. Sumner, J. B., 85a. Sumner, L., 37b. Sumner, W. A., 142a. Sund, J. M., 140a. Sundberg, D. F., 135a.

Sunde, M. L., 142b. Sunderland, A., 136a. Sunderlin, E. M., 41a. Sunderlin, G. L., 37b. Sundet, S. A., 118b. Suneson, C. A., 11a. Suomi, V. E., 140a. Supplee, W. C., 55b. Sure, B., 6b. Surovik, J. H., 125a. Surratt, A. L., 49b. Survant, W. G., 46b. Suter, G., 133b. Suter, R. C., 71b. Sutherland, J. G., 92a. Sutherland, L. M., 48a. Sutherland, M. H., 116a. Sutherland, R. O., 143b. Sutherland, S. S., 11b. Sutter, W. J., 74b. Suttle, A. D., 68a. Sutton, Mrs. D. T., 27b. Sutton, P. P., 91b. Sutton, T. S., 96a, 99b. Sutton, W. A., 25a. Svinth, C. A., 136a. Swain, J. C., 126a. Swain, L. C., 80a. Swain, Mrs. V. S., 92b. Swallers, C. M., 95b. Swanback, T. R., 19b. Swank, G., Jr., 22b. Swann, F. A., 50b. Swann, S. S., 69b. Swanson, A. F., 46b. Swanson, A. M., 140b. Swanson, C. A., 96b. Swanson, C. E., 19b. Swanson, C. L. W., 19b. Swanson, D. W., 93b. Swanson, E. W., 120b. Swanson, G. A., 85b. Swanson, H. B., 66b. Swanson, J. P., 135a. Swanson, L. E., 22b. Swanson, L. V., 41b. Swanson, M. E., 111a. Swanson, N. P., 126a. Swanson, P. P., V, 38a, 40b. Swanson, R. C., 141a. Swart, E. A., 82a. Swartwout, H. G., 72b. Swartz, D., 6b. Sweany, H. P., 60b. Sweet, M. C., 98b. Sweet, R. D., 89b. Sweet, S. F., 122a. Sweetman, H. L., 57b. Sweetman, Mrs. M. D., 53b. Sweetman, W. J., 4b. Sweigert, R. L., VII. Swenson, J. D., 57b. Swenson, M. J., 46a. Swenson, O. W., 67b. Swenson, S. P., VI, 134a.

Swift, E. A., 48b. Swift, H. C., 53a. Swift, M. L., 78b. Swift, R. W., 108b. Swinbank, J. C., 76a. Swinford, K. R., 22a. Swingle, F. L., 4b. Swingle, H. D., 122a. Swingle, H. S., 3b. Swingle, K. F., 75a. Swink, E. T., 132b. Swope, R. E., 54a. Swope, W. D., 109b. Sylvester, E. S., 9a. Sylwester, E. P., 39b. Symons, J. N., 128b. Sympson, M. M., 33a. Syverud, A. O., 118a.

T

Tack, P. I., 59b, 64a. Taecker, R. G., 43b. Taff, P. C., 40a. Taft, C. E., 96b. Taft, E. A., 108b. Taggart, W. G., 49a, 50b. Tague, W. H., 57b. Taietz, M., 85b. Tait, E. B., 109b. Takahashi, M., 28a. Takahashi, W. N., 10a. Takei, S., 28a. Talbot, N. A., 102b. Talbot, R. F., 52b. Tallman, K. L., 71a. Talmadge, D. W., 19a. Talton, Mrs. L., 52b. Tamsma, A. F., 39b. Tanabe, T. Y., 109b. Tanada, Y., 28a. Tanaka, T., 29a. Tannenbaum, E. R., 15b. Tanner, C. B., 142b. Tanner, J. T., 122b. Tapley, W. T., 90b. Tappan, G., 50b. Tapscott, A. F., 98a. Tarassuk, N. P., 11b. Tarpy, M. L., 116b. Tarr, M., 41b. Tarrant, L., 110a. Tarver, J. D., 6b. Tarwater, N., 50b. Taschenberg, E. F., 89a. Taskerud, E., 106a. Tate, H. F., 5b. Tate, H. S., 116a. Tate, L. B., 132a. Tate, Mrs. M. T., 132b. Tatum, L. A., 43a. Tauber, O. E., 42b. Tavernetti, J. R., 11b. Taylor, Mrs. B., 59a. Taylor, C. A., 118a. Taylor, C. E., 33b.

Taylor, C. F., 138b. Taylor, C. M., 98a. Taylor, C. R., 49b. Taylor, C. S., 83b. Taylor, D., 93b. Taylor, F. C., 16a. Taylor, F. H., 130a. Taylor, F. R., 114a. Taylor, H. B., 36b. Taylor, H. L., 122b. Taylor, H. R., 83b. Taylor, J., 27b. Taylor, J. B., 119b. Taylor, J. C. (La.), 52a. Taylor, J. C. (N. J.), 82b. Taylor, J. G., 36a. Taylor, J. H., 120a. Taylor, J. S., 109b. Taylor, L. F., 43a. Taylor, L. W., 10b. Taylor, M. C., 74b. Taylor, M. E., 133b. Taylor, M. H., 128b. Taylor, M. W., 80a. Taylor, R. B., 25b. Taylor, Mrs. R. C., 103a. Taylor, R. S., 48a. Taylor, S., 99b. Taylor, S. A., 128a. Taylor, T. H., 133b. Teagarden, E. H., 44b. Teague, C. E., IV. Tedrow, J. C. F., 82b. Tedrow, N. P., 19b. Teel, M. R., 34a. Teeri, A. E., 79b. Teichroew, D., 93b. Telford, H. S., 135b. Tempel, L. H., 71b. Temple, A., 49b. Temple, F. C., 52b. Temple, W., 103a. Temple, W. E., 2b. Templin, E. H., 123a. Tennant, J. L., 114a. Tenny, R. W., VI, 62b. Tenpas, G. R., 143b. Ten Pas, H. A., 105b. Tepfer, S. S., 5a. Teply, Mrs. N. W., 143a. Terman, G. L., 52a. Terriere, L. C., 105a. Terrill, S. W., 31b. Terry, C. W., 86b. Terry, G. S., 48b. Terry, M. E., 133b. Terwilliger, C. J., 16b. Tesar, M. B., 61a. Teske, A. H., 133a. Tester, A. L., 29b. Teter, N. C., 92b. Tetrault, P. A., 35a. Teubner, F. G., 72b. Thackrey, R. I., III. Thaden, J. F., 62b.

Thair, P. J., 95a. Thames, G., 125a. Thames, N. E., 50b. Thames, S., 80a. Thames, W. H., 23a. Tharp, V. L., 98b. Tharpe, F. D., 27b. Thatcher, L. E., 99a. Thatcher, T. O., 16a. Thaxton, E. L., Jr., 127a. Thaxton, J. E., 116b. Thaxton, R. M., 46b. Thayer, C. H., 56a. Thayer, C. L., 58a. Thayer, R. H., 103b. Theis, S. M., 66a. Theis, T., II. Theophilus, D. R., 29a, 30a. Therrell, J. S., 69b. Thies, Mrs. E. P., 58a. Thies, W. H., 58b. Thiessen, E. J., 144b. Thode, F. W., 116b. Thomas, B. H., 39b. Thomas, C. A., 111b. Thomas, C. D., 93b. Thomas, E., 139b. Thomas, E. F., 26b. Thomas, E. H., 24a. Thomas, E. L., 65a. Thomas, F. B., 111a. Thomas, F. L., 124b. Thomas, G. W., 71b. Thomas, H., 121b. Thomas, H. C., 69b. Thomas, H. E. (Calif.), 10a. Thomas, H. E. (N. Y.), 88b. Thomas, H. L., 64a. Thomas, H. R., 131a. Thomas, J. L. (Fla.), 23b. Thomas, J. L. (Nebr.), 77b. Thomas, J. R., 134b. Thomas, K., 125a. Thomas, M., 105b. Thomas, M. C., 37b. Thomas, N. B., 101b. Thomas, O. J., 127b. Thomas, R. C., 99b. Thomas, R. M., 144b. Thomas, R. O., 6a. Thomas, R. P., 54a. Thomas, W. (Ala.), 4b. Thomas, W. (Pa.), 111a.
Thomas, W. D., 15a.
Thomas, W. E., 47a.
Thomas, W. I., 4a.
Thomas, W. P., 128b. Thomason, J. H., 24a. Thomason, J. M., 7a. Thomasson, R. R., 72a. Thompson, A. H., 139b. Thompson, B. G., 105b. Thompson, B. T., 53a. Thompson, C. A., 81b. Thompson, C. G., 8a.

Thompson, D. E., 70a. Thompson, D. W., 25b. Thompson, E. G., 132a. Thompson, E. M., 5b. Thompson, G. E., 25b. Thompson, H: C. (Ind.), 34a. Thompson, H. C. (N. Y.), Thompson, H. H., 26b. Thompson, H. J. (Mo.), 71b. Thompson, H. J. (Okla.), 103b. Thompson, H. M., 125a. Thompson, J. T., 26a. Thompson, L. G., Jr., 23b. Thompson, L. M., 38b. Thompson, L. S., 74b. Thompson, M. (N. Mex.), 83b. Thompson, M. (Wash.), 136b. Thompson, Mrs. M. E., 7a. Thompson, M. J., 67b. Thompson, M. L., 132b. Thompson, N., 41b. Thompson, N. R., 132a. Thompson, R. B., 103b. Thompson, R. H., 111b. Thompson, S., 51a. Thompson, S. H., 40a. Thompson, U. D., 123b. Thompson, V. C., 8b. Thompson, W. C., 82a. Thompson, W. D., 127b. Thompson, W. F., 8b. Thompson, W. L., 23a. Thompson, W. N., 32a. Thompson, W. R., 68a. Thomsen, L. C., 140b. Thomson, C. L., 58b. Thomson, E., 66a. Thor, A. U., 31a. Thordarson, T. W., 95a. Thorfinnson, M. A., 67a. Thorfinnson, T. S., 77a. Thornber, J. J., 5a. Thornberry, H. H., 33b. Thorne, D. W., 128a. Thorne, J. P., 128a. Thornhill, R., 94b. Thornley, H. F., 130a. Thornton, B. J., 15a. Thornton, E. J., 122b. Thornton, G. D., 22b. Thornton, J. K., 110a. Thornton, M. J., 142a. Thornton, M. K., 123a. Thorp, F., Jr., 63b. Thorpe, Mrs. A. C., 62a. Thorpe, D. M., 120b. Threlkeld, D. E., 48a. Threlkeld, W. L., 131b. Thrift, P. E., 52a. Throckmorton, R. I., III, V, 42a. Thuem, H. D., 125b.

Thurman, R. L., 6a. Thurston, H. W., Jr., 109a. Tidd, W. M., 99b. Tiedjens, V. A., 133a. Tiedke, K. E. R., 62b. Tiernan, J. P., 96b. Tietz, H. M., 111b. Tikemeyer, C. W., 63b. Tileston, F., 107b. Tillman, A. D., 49b. Tilly, Mrs. L. C., 4a. Tilson, H. G., 47b. Tilton, Mrs. A. P., 114b. Timberlake, J. T., 56a. Timm, T. R., 124a. Timmerman, D., 116b. Timmons, D. E., 21b. Timmons, F. L., 128a. Timmons, G. E., 60b. Timmons, J. F., 40a. Tims, E. C., 49b. Tingey, D. C., 128a. Tingey, W. A., 129a. Tingley, K. A., 18b. Tinklin, G. L., 45a. Tinley, J. M., 11b. Tintner, G., 40a. Tió, M. A., 113b. Tippets, Mrs. R. P., 129b. Tippett, J. E., 9a. Tippit, O. J., 127b. Tips, T. R., 126b. Tipton, S. R., 122b. Tirrell, L. V., 79a. Tischer, R. G., 41b. Tisdale, H. B., 1a. Tisdale, S. L., 90b. Tisdale, W. B., 21a. Tissot, A. N., 21b. Titus, L., 78b. Titus, S. F., 72b. Toben, G. E., 138a. Tobey, E. R., 53a. Tobiska, J. W., 17b. Todd, A., 47b. Todd, A. C., 47a. Todd, B. J., 116a. Todd, F. A., 91b. Todd, H. P., 69a. Todd, J. R., 46b. Todd, S. H., 55b. Todsen, T., 83a. Toenjes, W., 62a, 64b. Tolaas, A. G., 66b. Tolbert, M. E., 33b. Tolbert, R. H., 24b. Tolk, J., 100a. Tom, A. K. S., 29a. Tom, R. B., 97a. Tomes, M. L., 35a. Tomhave, A. E., 20a. Tomlinson, B., 143a. Tomlinson, J. F., 104b. Tomlinson, W. E., Jr., 82a. Tompkin, J. R., 143a.

Tompkins, C. M., 10a. Toney, L. A., 139a. Tontz, R. L., 102a. Toole, E., 95a. Tootell, R. B., III, VI, 73a, 74b. Torgerson, E. F., 107b. Torrance, J. B., 65a. Torrey, R. E., 56b. Torrie, J. H., 140a. Toth, L., 87b. Toth, S. J., 82b. Totman, C. C., 118a. Totten, A. S., 94b. Totusek, R., 34b. Touchberry, R. W., 31b. Toupin, R. A., 28b. Tove, S. B., 91a. Tower, B. A., 51b. Towne, J. E., 64b. Townes, H. K., Jr., 91b. Townsend, J. C., 21b. Townsend, J. F., 19a. Townsend, K. C., 23a. Townsend, L. H., 47b. Trabert, E., 110a. Tracy, P. H., 32b. Trainer, W. W., 111a. Tramel, T. E., 69a. Trammell, Mrs. E. Y., 66a. Trask, H. W., 52a. Trask, O. S., 18b. Traum, J., 13a. Traver, J. R., 57b. Travis, B. V., 86b. Traywick, J. D., 121a. Treanor, K. 24b. Treaster, W. L., 62a. Tremblay, F. T., 134a. Tremblay, R. H., 130b. Trenary, O. J., 16a. Trenk, F. B., 141a. Trent, W. T., 44b. Tretsven, J. O., 74a. Tretsven, W. I., 83b. Trevett, M. F., 52a. Trew, E. M., 127b. Tribble, L. F., 71a. Tribble, R. T., 28a. Triebold, H. O., 109a. Trimberger, G. W., 85a. Trimble, Mrs. A. P., 28a. Trindle, E., 106a, 107a. Trippensee, R. E., 57b. Triviz, A. E., 83b. Troth, E. O., 36b. Trotter, C. E., 109b. Trotter, J. S., 134b. Trotter, R. G., 51a. Trotter, Mrs. V., 77b. Trout, C. E., 103b. Trout, G. M., 60a. Troxell, H. E., 16b. True, L. G., 75a. True, R. P., 139a.

True, V., 87b. Trullinger, R. W., II, V. Trump, M. D., 144b. Truog, E., 142b. Trussell, D. F., 128a. Trust, C., 139b. Trustdorf, Mrs. M. J., 63b. Tryon, E. H., 138b. Tubbs, M. E., 120a. Tuck, C. O., 25b. Tucker, C., VII, VIII, 51a. Tucker, C. M., 71a. Tucker, E. A., 102a. Tucker, E. R., 51a. Tucker, H. P., 91b. Tucker, J. M., 11a. Tucker, L. N., 71a. Tucker, R. E., 114b. Tucker, R. H., 15a. Tuckey, S. L., 32b. Tufts, W. P., 12b. Tugwell, R. L., 122b. Tukey, H. B., 62a. Tukey, L. D., 111b. Tukey, R. B., 37b. Tuller, Mrs. M. H., 107a. Tullis, E. C., 126b. Tunnicliff, E. A., 75a. Turbes, C. C., 67b. Turk, K. L., 84b. Turk, L. M., 62b. Turk, R. D., 126a. Turman, E. J., 34b. Turn, J., 94b. Turnbull, E. E., 98a. Turner, B. C., 117a. Turner, C. E., 25a. Turner, C. N., 86b. Turner, C. W., 71a. Turner, E. C., 116a. Turner, E. F., 20b. Turner, E. M., 49b. Turner, E. S., 35a. Turner, F. H., 142b. Turner, Mrs. H. D., 33b. Turner, J. H., Jr., 27a. Turner, L. M., 129a. Turner, N., 19a. Turner, R. G., 16b. Turner, R. M., 135b. Turner, W. A., 132b. Turner, W. E., Jr., 132b. Turner, W. F., 126b. Turner, W. L., 92a. Turney, D. M., 1b. Turnham, P. B., 1b. Turnipseed, G. F., 91b. Turnquist, O. C., 66b. Turrell, F. M., 14b. Tuten, W. A., 116a. Tuthill, B. P., 23a. Tuthill, L. D., 29b. Tuttle, A. P., 58b. Twiehaus, M. J., 46a. Twining, P. F., 55b.

Tyler, H. S., 89b. Tyler, L. J., 88b. Tyler, W. E., 91a. Tyler, W. J., 138a. Tyner, E. H., 31a. Tyre, C. A., VII. Tyrrell, W. P., 120a. Tyson, J., 63a. Tyson, Z., 83b.

Udall, D., 88a. Udine, E. J., 111b. Ufford, O. C., 16b. Uhl, C. H., 85a. Uhler, L. D., 86b. Ulberg, L. C., 141b. Ullstrup, A. J., 35a. Ulrey, O., 60a. Ulrich, A., 10a. Ulrich, H. P., 34a. Ulrich, M., 144b. Ulich, W. L., 124b. Umbel, O., 28b. Underhill, G. W., 131b. Underkofler, L. A., 39b. Underwood, F. L., 102a. Underwood, H. J., 8b. Underwood, J. K., 119a. Underwood, R. E., 79b. Underwood, V. H., 93a. Upchurch, R. P., 90b. Upchurch, S., 121b. Upp, C. W., 51a. Urban, D. L., 28b. Uren, A. W., 73b. Urick, J. J., 75b. Urrey, G., 8b. Urrutia, Mrs. G. M., 113b. Ursic, S. J., 33a. Useem, J., 62b. Usinger, R. L., 9a. Usry, S. H., 92b.

Vail, G. E., VII, 45a. Vaile, J. E., 7b. Valencia, M. A., 113a. Valentine, K. A., 83a. Vales, E., 112a. Valleau, W. D., 46b. Vanasse, N. A., 93a. van Bavel, G. H. M., 90b. Van Blaricom, L. O., 116b. Van Camp, J. C., Jr., 33a. Vance, T. F., 41b. Vandecaveye, S. C., 134b. Vandemark, J. S., 37b. Van deMark, M. S., 2b. VanDemark, N. L., 31b. Van Demark, P. J., 85b. Vandenbergh, M. E., 142a. Van den Bosch, R., 28a. Vanderford, H. B., 68a. Van Der Noot, G. W., 80a.

Vandervest, W. L., 140a. Vanderwarf, M., 37b. Van Doren, A., 136b, 137b. Van Doren, C. E., 126a. Van Duyne, F. O., 33b. VanDyke, A. W., 18a. Van Eseltine, W. P., 115a. Van Fleet, D. S., 71a. Van Haltern, F., 26a. Van Hoosen, N., 137b. Van Hooser, Mrs. D. K., 114a. Van Horn, A. G., 122b. Van Horn, C. W., 5b. Van Horn, E., 107a. Van Horn, G. A., 57a. Van Horn, J. L., 74a. VanLandingham, A. H., 137a. Van Meter, R. A., IV, 56a. Vann, J. G., 90a. Van Ness, G. B., 22b. VanNorden, Mrs. F., 33b. VanNorman, R. W., 109a. Van Orden, H. O., 128b. Van Pelt, F. D., 36a. Van Roekel, H., III, 58b. Van Sant, W. R., 5a, b. Vansell, G. H., 11b. Vanselow, A. P., 14b. Van Syckle, C., 62a. Van Vlack, C. H., 40a. VanVlack, P. W., 118b. Van Winkle, J. W., 74b. Van Winkle, M. L., 26b. Vardiman, P. H., 127a. Varner, D. B., 60a. Varney, K. E., 130a. Varney, H. R., V, 137a. Varney, V. V., 141a. Varvandakis, P., 144a. Vary, K. A., 60a. Vasold, M. A., 61a. Vass, A. F., 143a. Vaughan, E., 132b. Vaughan, E. D., 143a. Vaughan, E. K., 105a. Vaughan, H. L., 10a. Vaughan, H. S., 57b. Vaughn, E. C., 47b. Vaughn, J. R., 59a. Vaughn, M., 23b. Vaughn, M. W., 56b. Vaughn, R. H., 9b. Vaught, W. E., 117b. Vaux, C. H., 16b. Vaux, H. J., 9b. Vavich, M. G., 5b. Vavra, F. L., 123a. Vawter, L. R., 79b. Vázquez, F., 113a. Vázquez Calcerrada, P., 113a. Veale, P. T., 31a. Veatch, C., 137b. Vegors, H. H., 26a. Veihmeyer, F. J., 12a.

Vélez-Fortuño, J., 113a. Venard, C. E., 99b. Vennes, L. A., 48b. Venzke, W. G., 98b, 100b. Verbeck, R. H., VI, 56a. Verchot, E. A., 1b. Vergeront, G. W., 140b. Vergin, E. A., 95b. Verlinden, F. J., 93b. Vermillion, U., 129b. Verner, L., 30b. Vestal, C. M., 34b. Vestal, E. F., 39b. Vial, J. M., 54a. Vice, K. R., 47a. Vicens, R. A., 112b. Vick, M. E., 33b. Vickers, F. K., 69a. Vickery, H. B., 19a. Viehmeyer, G., 78b. Vierheller, A. F., 55b. Viets, F. G., 134b. Vifquain, R. M., 42b. Vinal, W. G., 58b. Vincent, C. L., 136b. Vincent, E. L., 84a. Vincent, W. H., 60a. Vines, C. A., 7a. Vines, H. M., 12b. Vines, M., 71b. Vining, L. C., 35b. Vinson, D. A., 31a. Vittum, M. T., 90b. Vitums, A., 137b. Vivaldi-Briganti, S. A., 112a. Vizcarrondo, R., 113b. Vlamis, J., 10b. Voelker, D. E., 39a. Voelker, H. H., 6b. Voelker, S., 95a. Voeller, E. H., 96b. Vogel, F. H., 2a. Vogel, O. A., 134b. Volk, G. M., 22b. Volk, G. W., 96a, 99a. Volk, N. J., V, 34a. Vollmer, E. J., 87b. Vollrath, H. M., 28a. Volman, D. H., 11a. Volz, E. C., 41b. Vondell, J. H., 58b. von Rosenberg, S. E., 124a. Voorhees, R. K., 23a. Voorhies, E. C., 8b. Vosburg, C., 95b. Vose, H. H., 7b. Voss, R. C., 95b. Vossbrink, M. W., 60b. Vrooman, C. W., 105b.

w

Wachs, Mrs. E., 47a. Waddell, G. A., 53a. Wade, E. K., 142b. Wade, L. L., 126b.

Wade, S. T., 59a. Wadleigh, C. B., 80a. Wadley, B. N., 128a. Wadsworth, D. F., 102a. Wadsworth, H. A., 28a. Wadsworth, J. D., 129a. Wadsworth, S. E., 107a. Wagar, J. V. K., 16b. Wagenaar, Mrs. E. C., 118b. Wagenknecht, A. C., 89b. Wagner, E. L., 135a. Wagner, J. H., 136b. Wagnon, K. A., 11a. Wagoner, F., 92b. Wahl, H. A., 109a. Wahl, M. R., 140b. Waidhofer, A., 123a. Wakefield, H. R., 110a. Wakeley, J. T., 93b. Wakeley, R. E., 40a. Wakeman, T. J., 132b. Waki, H., 29b. Waksman, S. A., 82a. Waldee, B. J., 129b. Waldo, G. F., 107a. Waldron, L. R., 95b. Walker, Mrs. A. D., 118b. Walker, A. H., 125b. Walker, C., 33b. Walker, C. E., 23a. Walker, E. C., 17b. Walker, E. D., 31a. Walker, E. R., 58a. Walker, G. P., 34a. Walker, H. B., 11b. Walker, J. C., 142b. Walker, J. H., 22b. Walker, J. J., 119a. Walker, J. P., 132b. Walker, K. C., 135a. Walker, L., 78a. Walker, L. S., 130a. Walker, M., 118b. Walker, M. A., 102a. Walker, M. S., 25b. Walker, N., 102b. Walker, N. E., 16b. Walker, R. H., V, 128a. Walker, R. K., 49a, 52b. Walker, S., 107a. Walker, S. A., 30a. Walker, W. H., 123a. Walker, W. P., 54b. Walkey, F. L., 38a. Walkup, H. G., 135b. Wallace, A., 14a. Wallace, A. T., 21a. Wallace, E. M., 47a. Wallace, G. J., 64a. Wallace, H. D., 21a. Wallace, J. J., 40a. Wallace, J. M., 14b. Wallace, M. A., 62a. Wallace, M. E., VI, VII, 132b. Wallace, R. W., 23b.

Wallace, W. J. L., 139b. Wallen, S. C., 104a. Wallenfeldt, E., 140b. Waller, A. E., 96b. Waller, A. G., 81a. Waller, E. F., VIII, 20a. Waller, G. R., Jr., 20a. Waller, J. A., Jr., 132b. Waller, T. M., 68a. Wallerius, M. J., 130b. Wallihan, E. F., 14b. Wallin, J. R., 39b. Walls, E. P., 55b. Walls, H. R., 55b. Walls, J. G., 121a. Walrath, F. J., 120b. Walsh, L. E., 32a. Walster, H. L., 94a. Walter, J. M., 23b. Walter, L. E., 143b. Walter, W. G., 74a. Walters, C. S., 33a. Walters, H. J., 143a. Walters, J. C. (Ga.), 27a. Walters, J. C. (Okla.), 103a. Walters, L. E., 101b. Walters, M., 98a. Waltman, C. S., 48a. Walton, E. V., 124a. Walton, H. V., 110a. Walton, L. B., 70a. Walton, R. R., 102b. Walton, W., 144b. Walz, A. J., 30a. Walz, R. F., 118a. Wander, I. W., 23a. Wanderstock, J. J., 85a. Wann, F. B., 128a. Wann, R. P., 70a. Wantrup, S. V., 9a. Ward, A. B., 45b. Ward, A. H., 116a. Ward, E. H., 74b. Ward, G. J., 33b. Ward, H. L., 122b. Ward, H. S., 1b. Ward, H. T., 43b. Ward, J. M., 124a. Ward, L. M., 117b. Ward, M. L., 69b. Ward, Mrs. R. B., 52b. Ward, W. B. (Ind.), 37b. Ward, W. B. (N. Y.), 87a. Ward, W. W., 110b. Warden, J. A., 77b. Warden, R. L., 74a. Wardle, N. J., 40a. Ware, G. B., 103a. Ware, H. G., 103b. Ware, J. O., 6a. Ware, L. M., 2b. Ware, Mrs. M., 107a. Ware, R. E., 117a. Warfield, F., 97b. Waring, Mrs. E. B., 85b.

Waring, J. H., 53b. Wark, A. C., 80b. Warmbrod, J. G., 122a. Warmke, G. L., 112a. Warmke, H. E., II. Warne, B., 124b. Warner, D., 76a. Warner, D. F., 97a. Warner, E. D., 45b. Warner, J., 63b. Warner, J. D., 23a. Warner, J. H., 96a. Warner, L. E., 107b. Warner, M. R., 53a. Warnock, C. H., 27a. Warnhoff, E. H., 117a. Warnick, A. C., 104b. Warren, D. C., 38a. Warren, D. E., 30a. Warren, Mrs. E., 107a. Warren, E. P., 24a. Warren, F. G., 91a. Warren, G. F., 37b. Warren, J., 12a. Warren, J. W., 94b. Warren, K., 51a. Warren, L., 51b. Warren, L. O., 7a. Warren, R. (N. H.), 80b. Warren, R. (Oreg.), 106a. Warren, R. B., 59a. Warren, S. W., 86a. Warren, W. M., 123b. Warrick, W. C., 92b. Warriner, B. A., 132b. Warters, V. N., 89b. Warttman, P., 68b. Warwick, B. L., 126b. Wascher, H. L., 31a. Washburn, D. C., 62a. Washburn, H. P., 85b. Washburn, L. E., 15a. Washburn, R. G., 99b. Washburn, R. H., 4b. Washington, Mrs. E. 104b. Washington, Mrs. S. G., 104b. Washington, U. S., 20b. Washington, W. H., 116a. Washko, F. V., 38a. Washko, J. B., 108a. Wasmuth, G., 138b. Wasser, C. H., 16a. Wasson, R. A., 49a. Watanbe, F. S., 15a. Waterhouse, W. G., 9a. Waterman, H. C., II. Waters, R. E., 68b. Watkins, D. W., 115a, 116a. Watkins, G. M., 125b. Watkins, J. V., 22b. Watkins, M. O., 22a. Watkins, R. K., 129a. Watkins, T. C., 86b.

Watkins, W. E., 83a.

Watling, H., 75b. Watrous, G. H., Jr., 109b. Watson, C. D., 130b. Watson, D. P., 62a. Watson, E. S., 116b. Watson, G. M., 124a. Watson, I., 83a. Watson, J. P., 89b. Watson, J. R., 123a. Watson, J. W., 102a. Watson, L. G., 139a. Watson, L. S., 25a. Watson, R. D., 30b. Watson, V. K., 135a. Watson, W. L., 134b. Watt, D. B., 74a. Watt, D. D., 35a. Watts, A. B., 51b. Watts, A. V., 133b. Watts, F., 136b. Watts, F. L., 7b. Watts, J. G., 117a. Watts, L. F., IV. Watts, N., 97b. Watts, V. M., 7b. Waugh, A. E., 17a. Waugh, A. H., 41b. Waugh, R. K., 91a. Waymer, R. T., 20b. Wayne, R., 65a. Wayt, W. A., 97a. Weakley, C. E., Jr., 138a. Weakley, L., 122b. Wear, J. I., 1a. Weatherby, E. J., 54b. Weaver, B. L., 33b. Weaver, C. R., 100a. Weaver, D. S., 90a, 92b. Weaver, E., 59b. Weaver, Mrs. E. K., 98a, 100b. Weaver, G. S., 119b. Weaver, H. A., 2a. Weaver, J. E., 76b. Weaver, J. W., 92b. Weaver, L. A., 70a. Weaver, L. E., 88b. Weaver, L. L., 7b. Weaver, L. O., 54a. Weaver, R. A., 34a. Weaver, R. J., 13b. Weaver, V. H., 33b. Weaver, W. H., 57b. Webb, A. D., 13b. Webb, E. M., 135b. Webb, H. J., 115b. Webb, K. B., 130b. Webb, R. E., 51a. Webb, R. J., 33b. Webb, T. S., 23b. Webber, P. R., Jr., 117b. Webber, R. D., 128a. Weber, A. D., 42a.

Weber, A. F., 67b.

Weber, C. R., 38b.

Weber, G. F., 21a, 22a. Weber, J. A., 32b. Weber, P. V. V., 99b. Weber, W. W., 120a. Webster, D. A., 85b. Webster, G. T., 76a. Webster, H. D., 63b. Webster, J. E., 102a. Webster, J. S., 118a. Webster, O. J., 76a. Webster, R. L., 135b. Weckel, K. G., 140b. Weddell, D. J., 24a, 25a. Wedding, R. T., 14b. Weddington, D. L., 124b. Wedgeworth, S. L., 70b. Weekley, P. A., 3a. Weeks, D., 9a. Weeks, J. B., 23a. Weeks, J. P., 3a. Weeks, M. E., 46a. Weeks, O. B., 29b. Weeks, S. B., 19b. Weeks, W. F., 12a. Weems, C., 27b. Weese, S. J., 138a. Weesner, K. M., 33b. Wehunt, R. L., 24a. Weibel, D., 43a. Weibel, J. L., 107b. Weibel, R. O., 31a. Weidemann, A. G., 63a. Weidenbach, W. H., 3b. Weier, T. E., 11a. Weihing, J. L., 78a. Weihing, R. M., 126b. Weimer, J. L., 26a. Weinard, F. F., 33b. Weinman, J. E., 73a. Weir, T. S., 66b. Weir, W. C., 11a. Weir, W. W., 10b. Weis, A. E., 72b. Weiser, V., 107a. Weishaupt, C., 96b. Weiss, H. S., 82b. Weiss, J. E., 83a. Weiss, J. N., 32a. Welborn, B. E., 26a. Welch, B. G., 82a, 83a. Welch, D. S., 88b. Welch, E. C., 123a. Welch, E. G., 47b. Welch, F. J., V, 68a, 70a. Welch, H., 75a. Welch, H. K., Jr., 24b. Welch, J. E., 13a. Weldon, F. C., 122b. Weldon, M. D., 76a. Weldon, M. M., 47b. Weldon, N. W., 90b. Well, J. C., 91b. Weller, L. E., 59a. Wellhausen, H. W., 119a. Wellington, G. H., 85a.

Wellington, J. W., II. Wellington, R., 89b. Wellman, F., 40a. Wellman, H. R., 8a. Wellman, M. K., 40b. Wells, B. W., 91b. Wells, C. M., 69a. Wells, D. E., 114a. Wells, D. G., 68a. Wells, Mrs. V., 107a. Wells, W. G., 29b. Wendling, L. T., 44b. Wene, G. P., 127b. Wenner, E. A., 60b. Wentworth, J., 29a. Wentz, Mrs. E., 96b. Wenzell, F. W., Jr., 23a. Werden, J., 89a. Werkman, C. H., 39a. Werner, G. M., 140b. Werner, H. O., 78a. Wernham, C. C., 109a. Wert, J. E., 40a. Wertenberger, E., 98a. Werthauer, H. R., 82b. Werts, Mrs. A. W., 58a. Wertz, V. R., 97a. West, E., 21a. West, E. E., 50a. West, E. M., 49b. West, G., 90b. West, J. L., 120a. West, J. W., 37b. West, R. F., 51a. West, V. I., 32a. Westberg, C., 92a. Westbrook, C. J., 7b. Westbrook, E. C., 24a. Westbrook, L. C., 25a. Westbrooks, F. E., 122b. Westcott, G. W., 57a. Westcott, M. L., 2b. Wester, K., 39b. Westerfield, C., 26b. Westerman, B. D., 45a. Westfall, J. J., 24a. Westgate, M. E., 111a. Westgate, P. J., 22b. Westin, F. C., 118a. Westlund, E. B., 41b. Westman, J. R., 82b. Westover, K. C., 138b, 139b. Westrate, B., 61a. Westveld, R. H., 72a. Weswig, P. H., 105a. Wettstein, C. G., 81a. Wetzel, H. J., 32b. Weybrew, J. A., 90b. Whaley, W. M., 120a. Whalin, O. L., 32b. Whalley, J. M., 14a. Wham, B. K., 111a. Whaples, R. W., 18a. Wharton, M. A., 98a, 100b. Whatley, F. R., 10a.

Whatley, J. A., Jr., 101b. Whatley, J. R., 132b. Whatley, M. L., 26b. Whatley, T. J., 120b. Wheary, C. D., 132b. Wheat, J. D., 13a. Wheatley, J. R., 20b. Wheeler, A. C., 63b. Wheeler, B. E., 48a. Wheeler, E. H., 57b. Wheeler, E. J., 61a. Wheeler, G. J., 23b. Wheeler, J. H., 109b. Wheeler, R. H., 84a. Wheeler, R. S., 25b. Wheeler, S. S., 14a, 15a. Wheeler, W. C., 121a. Wheeting, L. C., 134b. Whelden, H. C., Jr., 131b. Whetstone, E., 40b. Whetten, N. L., VII, 19a. Whippen, N. F., 79b. Whisenhunt, R., 93b. Whisnant, M. N., 51a. Whistler, R. L., 35a. Whitacre, J. O., 125a. Whitaker, J. H., 18a. Whitcomb, L. R., 20b. Whitcomb, S. E., 45b. Whitcomb, W., Jr., 51b. Whitcomb, W. D., 57b. Whitcombe, J. E., 89b. White, A. E., 103b. White, B. T., 94b. White, C. G., 102a. White, D. G., 111b. White, E. A., 63b. White, Mrs. E. D., 33b. White, F. E., 132b. White, H. A., 24b. White, H. B., Jr., 109b. White, H. D., 25a. White, H. E., 58b. White, H. H., 108b. White, H. M., 75a. White, Mrs. H. M., 47b. White, J. B., 23b. White, J. C., 85b. White, J. E., 137a. White, J. L., 34b. White, J. M., 83b. White, J. W., 6b. White, L. H., 56b. White, M., 98a. White, M. E., 135b. White, M. M., VI. White, M. P., 57b. White, M. V., 89a. White, N., 37b. White, R. C., 91b. White, R. F., 125a. White, R. G., 60b. White, T. A., 116a. White, V. B., 37b.

White, W. C. (Ark.), 6a. White, W. C., (Va.), 131a. White, W. E., 110b. White, W. H., 56b. Whitehair, C. K., 101b. Whitehair, N. V., 44a. Whitehead, E. I., 18a. Whitehead, E. L., 103b. Whitehead, F. E., 7a. Whitehead, L. C., 91b. Whitehead, M. D., 125b. Whitehouse, J. W., 47b. Whitehouse, R. C., 103b. Whiteley, E. L., 123a. Whitesel, R., 33b. Whiteside, E. P., 63a. Whitfield, C. J., 126a. Whitfield, E. E., 66a. Whitfield, W. R., 42a. Whitford, L. A., 91b. Whitlock, M. C., 62a. Whitlock, Mrs. R. H., 81b. Whitlock, S. C., 63b. Whitman, E. W., 29a. Whitman, G. B., 32a. Whitman, W. C., 96a. Whitnah, C. H., 43b. Whitner, B. F., Jr., 22b. Whitney, H. S., 102a. Whitney, I. B., 122b. Whitney, J. B., Jr., 115a. Whitney, R. M., 32b. Whitney, R. S., 15a. Whitney, W. C., 78a. Whitsett, S., 125a. Whitt, D. M., 72a. Whittaker, E., 15b. Whittaker, R. H., 135b. Whitten, T. P., 2b. Whittenburg, H. W., 47b. Whittle, B. T., 54a. Whorley, Mrs. B., 7a. Whorlow, M. I., 40b. Wiant, D. E., 60b. Wichers, H. E. (Kans.), 45a. Wichers, H. E. (Wash.), 135b. Wichroski, A. F., 19a. Wickes, H. G., 125a. Wickham, J. A., 141b. Widdifield, R. B., 95b. Widger, W. K., Jr., 84b. Widick, H. L., 62a. Widmer, Mrs. P. G., 18b. Widmer, R. E., 66b. Wiegand, E. H., 106a. Wiegand, R. V., 75a. Wiegers, G. W., Jr., 120b. Wiegers, H., 78a. Wiersma, J. L., 118b. Wiese, A. C., 29b. Wiesendanger, D. E., 110b. Wiggans, C. C., 78a. Wiggans, R. G., 88a. Wiggenhorn, Mrs. A. B., 74b. Wiggenhorn, M. A., 107a. Wiggins, A. M., 3a. Wiggins, G. E., 30b. Wiggins, M. C., 45a. Wigginton, B. E., 25b. Wightman, E. T., 47a. Wiidakas, W., 95b. Wilbur, D. A., 44b. Wilbur, Mrs. J. C., 55b. Wilbur, J. W., 35b. Wilcox, A. N., 66b. Wilcox, A. T., 59b. Wilcox, E. B., 129b. Wilcox, R. A., 137a. Wilcox, R. B., 82a. Wilcox, R. H., 32a. Wilcox, R. W., 30a. Wild, C. W., 111b. Wildasin, H. L., 18a. Wilde, S. A., 142b. Wilder, C., 106b. Wilder, C. N., 24a. Wilding, J. L., 122b. Wildon, C. E., 62a. Wileden, A. F., 142b. Wiles, M., 47b. Wiley, J. R., 34b. Wiley, T. E., 85a. Wiley, W. H., 114b. Wilford, E. J., 46b. Wilhelm, Mrs. M. K., 58a. Wilhelm, S., 10a. Wilhelmy, O., Jr., 85a. Wilkening, E. A., 93a. Wilkerson, Mrs. E. K., 69a. Wilkerson, M., 88a. Wilkerson, T. L., 69a. Wilkes, L. H., 124b. Wilkins, A. E., 77b. Wilkins, E. S., 41b. Wilkinson, C. F., 69a. Wilkinson, J. F., 139a. Wilkinson, R. E., 88b. Wilkowske, H. H., 21b. Willard, C. J., 96a, 99a. Willard, H. S., 143b. Willey, C. E., 51a. Willey, L. D., 77b. Willey, N. B., 127b. Willham, O. S., 101a. Willhite, F. M., 15a. Williamon, P. S., 116a. Williams, A. B., 117b. Williams, C., 103b. Williams, C. F. (Ark.), 7a. Williams, C. F. (N. C.), 93a. Williams, C. N., 103b. Williams, D. E. (Calif.), 10b. Williams, D. E. (Tenn.), 121b. Williams, D. H. (N. Mex.), 84b. Williams, D. H. (Wis.), 140a. Williams, D. R., 41b. Williams, D. W., 123a.

Williams, E. B., 15a. Williams, E. L., 104a. Williams, E. N., 117b. Williams, F. A., 94b. Williams, G. A., 35b. Williams, G. G., 34b. Williams, G. R., 127b. Williams, H. C., 94b. Williams, H. E. (Ala.), 3b. Williams. H. E. (Wash.), 137a. Williams, H. H., 85a. Williams, H. R., 20b. Williams, I., 121b. Williams, I. L. (Nebr.), 78b. Williams, I. L. (N. C.), 92b. Williams, J. A., 63b. Williams, J. B., 94b. Williams, J. C. (N. C.), 90b. Williams, J. C. (Tex.), 125b, 127a. b. Williams, J. E. (Minn.), 67b. Williams, J. E. (Tenn.), 120a. Williams, J. M., 92b. Williams, J. R., 69b. Williams, J. S., 129a. Williams, J. T., 56a. Williams, L. C., 42a, 44b. Williams, L. F., 17b. Williams, L. R., 78a. Williams, M., 121b. Williams, M. A., 47a. Williams, M. J., 131a. Williams, M. S., 92a. Williams, M. W., 3a. Williams, N. J., Jr., 140a. Williams, N. W., 93a. Williams, O. C., 117b. Williams, O. M., 70a. Williams, P. S., 109b . Williams, R. M., 75b. Williams, R. O., 24a. Williams, R. W., 8b. Williams, S., 131b. Williams, S. A., 116a. Williams, S. W., 1b. Williams, Mrs. V. R., 50a. Williams, W. O., 13b. Williamson, B., 70b. Williamson, C. E., 88b. Williamson, D. O., 128a. Williamson, E. J., 118a. Williamson, F., 50a. Williamson, G. E., 47a Williamson, H. G., 35a. Williamson, J. H., VII. Williamson, J. T., 1a. Williamson, Mrs. L. J., 86a. Williamson, M. M., Jr., 124a. Williamson, W. N., 124b. Willimon, C. P., 116b. Willis, A. W., 143a. Willis, E. C., 41b. Willis, Mrs. E. G., 92b.

Willis, R. L., 80b. Willis, W. H., 49a. Willis, W. W., 45a. Williston, D. A., 122b. Willits, N. A., 63a. Willman, H. A., 85a. Willman, J. P., 85a. Willoughby, L. E., 43a. Willoughby, M. E., 37b. Wills, J. E., 32a. Wills, W. J., 32a. Wills, W. W., 2a. Willsey, R. R., 36a. Willson, A. E., 23a. Willson, E. A., 74b. Willson, F. S., 74a. Wilman, S. G., 13b. Wilmore, H., 48a. Wilsie, C. P., 38b. Wilson, A. M, 131b Wilson, B. S., 120b. Wilson C. A. 70a. Wilson C. C. 24a. Wilson C. E. 98a. Wilson C. M. 1a. Wilson, C. P. 44a. Wilson C. T., 1a. Wilson, C. V., 138a. Wilson, D. G., 125b. Wilson, E. B., 74b. Wilson, E. E., 12b. Wilson, E. L., 125a. Wilson, G. B. (Mich.), 59a. Wilson, G. B. (Tex.), 125a. Wilson, H. A. (Mass.), 58b. Wilson, H. A. (W. Va.), 139a. Wilson, H. M., 87a. Wilson, I. D., 131a. Wilson, J. B., 140a. Wilson, J. D., 96b, 99b. Wilson, J. F., 11a. Wilson, J. G., 84b. Wilson, J. H., 99a. Wilson, J. P., 8b. Wilson, J. W., 22b. Wilson, L., 128a. Wilson, Mrs. L. P., 37b. Wilson, M. C. (Ind.), 36a. Wilson, M. C (USDA), IV. Wilson, M. L. (Ind.), 37b. Wilson, M. L. (Tex.), 123a. Wilson, M. L. (USDA), IV. VI. Wilson, N. E., 57b. Wilson, P. P., VII, 24a, 25b. Wilson, P. W., 140a. Wilson, R. (Alaska), 4a. Wilson, R. (Utah), 128b. Wilson, R. F., 118a. Wilson, R. J., 75a. Wilson, R. W., 92b. Wilson, T. V., 92b. Wilson, V., 92b. Wilson, W. C., 47b. Wilson, W. F., Jr., 51b.

Wilson, W. H., 111b. Wilson, W. O., 12b. Wilson, W. S. (Alaska), 4a. Wilson, W. S. (Md.), 55a. Wilster, G. H., 105a. Wilt, H. S., 60a. Wiltshire, J. B., 37b. Wimer, D. C., 31a. Winant, H. B., 54a. Winch, F. E., Jr., 85b. Winder, W. C., 140b. Windham, S. L., 70b. Windhusen, L., 136b. Wines, E., 125a. Wing, E. M., 15b. Wing, L. W., 126a. Wing, M. W., 91b. Wing, S. M., 53b. Wingard, S. A., 133a. Wingo, C. W., 71b. Wink, Mrs. A. T., 109b. Winkler, A. J., 13a. Winn, J. D., 17b. Winn, P. N., Jr., 55a. Winner, H. A., 29a, 30a. Winner, E. B., 72b. Winsor, A. L., 86a. Winsor, H. W., 22b. Winter, A. R., 98b, 100b. Winter, H. F., 99b. Winter, J. D., 66b. Winterberg, S. H., 120a. Winters, E., 119a. Winters, E. S., 3a. Winters, H. F., II. Winters, L. M., 64a. Winters, R. P., 81b. Wipf, F. L., 143a. Wipprecht, R., 124b. Wisdom, F. B., 6b. Wisdom, G., 65a. Wise, C. E., 104b. Wise, G. H., 91a. Wise, L. N., 68a. Wiseman, C. R., 118b. Wiser, W. J., 6a. Wishnetsky, T., 89b. Wiswall, F. A., 118b. Witherow, B. M., 110b. Witt, E. E., 46b. Witt, L. W., 60a. Witt, R. H., 104a. Witt, W. H., 33b. Witter, J. F., 52b. Wittmeyer, E., 98a. Wittwer, E. E., 78a, b. Wittwer, S. H., 62a. Witz, R. L., 95a. Witzel, S. A., 141a. Woeber, H. H., 26b. Woestemeyer, V. W., 43a. Wofford, J. M., 21a. Wojta, A. J., 141a, 142b. Wolberg, F. B., 105a. Wolcott, A. R., 63a.

Wolcott, G. N., 113a. Wold, A., 75b. Wolf, E. A., 23a. Wolf, I. H., 103b. Wolf, R. S., 66b. Wolf, W. H., 97a. Wolfanger, L. A., 59b, 63a. Wolfe, F. J., 138b. Wolfe, H., 76a. Wolfe, H. R., 135b. Wolfe, H. S., 22a. Wolfe, J. J., 117a. Wolfe, J. N., 96b. Wolfe, J. W., 105b. Wolfe, M. A., 61a. Wolfenbarger, D. O., 23b. Wolfer, R. K., 63b. Wolowicz, C. H., 57b. Wolterink, L. F., 63b. Wolters, F. A., 126b. Woltz, W. G., 90b. Wonderling, T. F., 100b. Wood, A. L. (Wash.), 136b. Wood, A. L. (W. Va.), 139b. Wood, B. B., 58b. Wood, D. C., 71b. Wood, D. R., 15a. Wood, E. L., 120a. Wood, G. B., 35b. Wood, G. W., 130a. Wood, J. H., 120a. Wood, L., 98a. Wood, L. K., 46b. Wood, M., 111b. Wood, M. A., 5b. Wood, M. B., 86a. Wood, H. E., 87b. Wood, W. A., 31b. Wood, W. B., 96a. Wood, W. H., 55b. Woodard, A. W., 120b. Woodard, O., 27b. Woodburn, R., 69a. Woodbury, G. W., 30b. Woodfin, V. I., 126b. Woodhouse, W. W., Jr., 90b. Woodhull, J. E., 130b. Woodin, M. D., 50a. Woodin, R. J., 97a. Wooding, B., 19b. Wooding, N. H., Jr., 110a. Wooding, W. L., 15b. Woodle, H. A., 115a. Woodmansee, C. W., 20a. Woodriff, R. A., 74a. Woodring, F. R., 76b. Woodroof, J. G., 26b. Woodroof, Mrs. N. C., 27b. Woodruff, C. M., 73a. Woodruff, L., 72b. Woodruff, N. C., 19a. Woodruff, N. P., 43a. Woods, C. A., 127b. Woods, E., 30b. Woods, G. T., 33b.

Woods, J. J., 127b. Woods, J. W., 120a. Woods, R., 96b. Woods, S. M., 120a. Woods, T. R., 122b. Woodside, A. M., 131b. Woodside, G. L., 57b. Woodward, C. R., IV, 114a. Woodward, G. O., 143a. Woodward, H. C., 53a. Woodward, J. M., 52b. Woodward, M. J. E., 61a. Woodward, R., 76b. Woodward, R. O., 101b. Woodward, R. R., 75b. Woodward, R. S., 52a. Woodward, R. W., 128a. Woodworth, C. M., 31a. Woodworth, H. C., 79b. Woolcott, A. R., 61a. Wooldridge, Mrs. M. C., 48a. Wooley, J. C., 71b. Woolfolk, P., 47a. Woolley, T. A., 17b. Woolsey, J. H., 13a. Wooten, O. B., 70b. Worden, P. W., 120b. Work, P., 89b. Work, R. A., 108b. Work, S. H., II. Working, E. J., 32a. Worley, D. P., 110b. Worley, L., 121a. Worley, O., 121a. Worley, R. E., 79a. Worley, S., Jr., 5b. Worrell, A. C., 25a. Worrilow, G. M., 19a, 20a. Worstell, D., 71a. Worthington, O. J., 106b. Worthman, R. P., 42b. Worzella, W. W., 117a. Wright, A. H., 140a. Wright, C. M., 137a. Wright, E., 103b. Wright, E. C., 52b. Wright, F. B., 86b. Wright, F. E., 88a. Wright, G. L., 141a, 143b. Wright, G. P., 6b. Wright, H. E., 81a. Wright, J. B., 27b. Wright, J. C., 74a. Wright, J. D., 3a. Wright, J. E., 109a. Wright, K. T., 60a. Wright, Mrs. N. H., 77b. Wright, O., 87a. Wright, R. E., 51b. Wright, S. J., 81a. Wright, T. P., 84a. Wright, T. R., 137a. Wright, T. R. H., 118a. Wrigley, P. I., 109b.

Wu, M., 107a. Wyant, Mrs. Z. N., 47a. Wyatt, C. E., 46b. Wyatt, P., 136b. Wyche, R. H., 126b. Wyckoff, C. G., 13b. Wycoff, H. D., 29b. Wylie, C. E., 120a. Wylie, M., 85b. Wylie, W. D., 7a. Wyman, D. R., 65b. Wyman, E. P., 18b. Wyman, L., 92b. Wyman, O. L., 52a. Wyman, R., 57a. Wyman, W. F., 83a. Wynd, F. L., 59a. Wynder, Mrs. M. M., 20b. Wynn, R. L., 94b.

Y

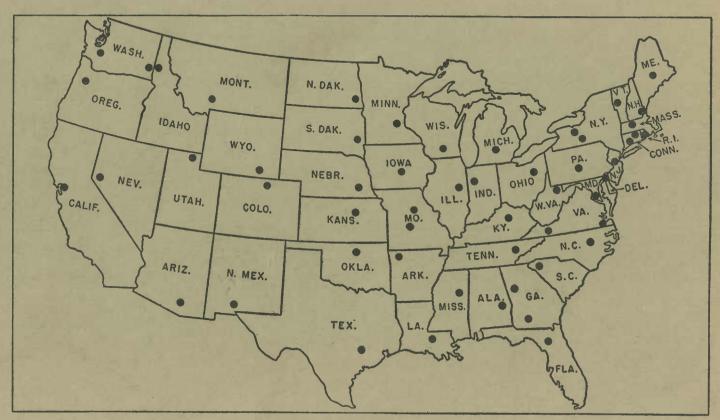
Yabsley, B. R., 62a. Yaeger, L. A., 75a. Yagyu, P. K., 78a. Yamaguchi, M., 13a. Yamazaki, W. T., 99a. Yang, H., 106b. Yantis, M. F., 98b. Yapp, W. W., 31b. Yarbrough, J. F., 2a. Yarbrough, M., 50b. Yarwood, C. E., 10a. Yates, H. F., 3b. Yates, V. J., 114a. Yeager, A. F., 80b. Yeager, J. H., 35b. Yeargin, W. D., 117b. Yegian, H. M., 56a. Yoakum, N., 103b. Yocom, C. F., 135b. Yoder, J., 76b. Yoder, L., 39b. Yoder, R. E., 99a. Young, A. L., 32b. Young, C., 87b.

Young, D. J., 20a. Young, D. W., 127a. Young, E. C., 35b. Young, E. R., 47b. Young, F., 89a. Young, F. W., 63b. Young, H. A. (Calif.), 11a. Young, H. A. (S. Dak.), 118b. Young, H. C., 96b, 99b. Young, H. E., 53b. Young, H. M., 47a. Young, H. N., V, 131a. Young, J. B., 120a. Young, J. O., 105a. Young, Mrs. K., 107a. Young, L. A., 142a. Young, L. W., 137b. Young, P. A., 127a. Young, R. A., (N. Dak.), 95b. Young, R. A. (Oreg.), 105a. Young, R. E., 58b. Young, R. S., 7b. Young, R. W., 131b. Young, V. A., 125b. Young, V. G., 125a. Young, V. H., 7b. Young, W. B., V, 17a, 18a. Younge, O. R., 28a. Younger, J. F., 118b. Youngquist, B. E., 67b. Youngs, F. S., 52a. Youngstrom, C. O., 29a, 30a. Yount, J. P., 70a. Yount, M. E., 78a. York, C. J., 18a. York, E. T., Jr., 90b. York, H. A., 70b. York, T. N., 89b. Yund, C. C., 35a. Yung, F. D., 77a. Yungen, J. A., 107b.

Z

Zaehringer, M. V., 75a. Zahnley, J. W., 43a.

Zahorsky, Mrs. M., 32a. Zak, B., 25a. Zak, J. M., 56a. Zander, B. A., 32a. Zander, D. V., 13a. Zappe, M. P., 19b. Zarrow, M. X., 35a. Zavoral, H. G., 64b. Zayas-Chardón, H., 112a. Zaylskie, J. J., 96a. Zeasman, O. R., 142b. Zeender, J. K., 58a. Zehner, C. E., 140b. Zeigler, L. W., 22b. Zeliff, C. C., 111b. Zelle, M. R., 85b. Zellner, E., 25a. Zentmyer, G. A., 14b. Zentz, E. M., 55b. Ziegler, E. A., 22a. Ziegler, G. A., 142a. Ziegler, P. T., 108b. Zielinski, Q. B., 107a. Zimmerman, Mrs. K., 72a. Zindel, H. C., 62b. Zingg, A. W., 43a. Zink, F. W., Jr., 13a. Zivnuska, J. A., 9b. Zmerman, P. J., 84b. Zmolek, W. G., 39a. Zobel, M. P., 13a. Zoebisch, O., 28a. Zoerb, C. F., 80b. Zoerb, G. C., 118b. Zook, M. H., 111a. Zscheile, F. P., Jr., 11a. Zuber, M. S., 72a. Zubriski, J. C., 95b. Zuger, W. E., 136a. Zuill, F. L., IV, 141b. Zuroske, C. H., 135b. Zwemer, E. A., 62a. Zwilling, E., 18a. Zwolanek, H. K., 33b.



HEADQUARTERS OF STATE AGRICULTURAL EXPERIMENT STATIONS